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TESTING AND EVALUATION OF PRIMARY
ALKALINE CELLS AND BATTERIES

Report No. 3, Third Semi-Annual Report
1 March 1961 to 1 September 1961

Signal Corps Contract No. DA-36-039 SC-78320
Order No. 40009-PM-60-91-91
Task No. 3A99-09-002-02

Mallory Battery Company
North Tarrytown, New York

A Division of P. R. Mallory & Co., Inc., Indianapolis, Ind.

XEROX

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TESTING AND EVALUATION OF PRIMARY
ALKALINE CELLS AND BATTERIES

Report No. 3, Third Semi-Annual Report

1 March 1961 to 1 September 1961

Object of Study: The testing and evaluation of primary alkaline cells and batteries of the zinc-alkaline-mercuric oxide system over a wide range of discharge rate, temperature and storage time under Signal Corps Technical Requirement SCL-6274 of 19 September 1958

Signal Corps Contract No. DA-36-039 SC-78320
Order No. 40009-PM-60-91-91
Task No. 3A99-09-002-02

Placed by

U. S. Army Signal Research and Development Laboratory
Fort Monmouth, New Jersey

With the

Mallory Battery Company
North Tarrytown, New York

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PURPOSE

1.1 To test and evaluate the performance of alkaline primary cells and batteries of types 1R, 12R, 42R, 502R, 60LR, 625R, 640R, 650R, and 675R of the zinc-alkaline-mercuric oxide system as detailed in the Signal Corps Technical Requirement SCL-6274.

1.2 Division of Program into Tasks.

1.2.1 Task A: Establishment of Test Facilities and Procedures.

1.2.2 Task B: Test and Evaluation of Type 12R Cell.

1.2.2.1 Sub-Task B1: Initial Discharge, SCL-6274, Chart No. 1.

1.2.2.2 Sub-Task B2: 36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1.

1.2.2.3 Sub-Task B3: 36-Month Storage & Discharge, SCL-6274, Chart No. 2.

1.2.2.4 Sub-Task B4: 12-Month Storage with Intermittent Discharge, SCL-6274, Chart No. 4.

1.2.2.5 Sub-Task B5: 12-Month Cyclic Storage & Discharge, SCL-6274, Chart No. 5.

1.2.2.6 Sub-Task B6: 3-Month Storage and Discharge, SCL-6274, Chart No. 7.

1.2.3 Task C: Test and Evaluation of Type 42R Cell.

1.2.3.1 Sub-Task C1: Initial Discharge, SCL-6274, Chart No. 1.

1.2.3.2 Sub-Task C2: 36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1.

1.2.3.3 Sub-Task C3: 36-Month Storage and 1000-Hour Discharge, SCL-6274, Chart No. 6.

1.2.4 Task D: Test and Evaluation of Type 640R Cell.

1.2.4.1 Sub-Task D1: Initial Discharge, SCL-6274, Chart No. 1.

1.2.4.2 Sub-Task D2: 36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1.

1.2.4.3 Sub-Task D3: 36-Month Storage and Discharge, SCL-6274, Chart No. 3.

1.2.4.4 Sub-Task D4: 12-Month Cyclic Storage and Discharge, SCL-6274, Chart No. 5.

1.2.4.5 Sub-Task D5: 3-Month Storage and Discharge, SCL-6274, Chart No. 7.

1.2.5 Task E: Test and Evaluation of Type 1R Cell.

1.2.5.1 Sub-Task E1: Initial Discharge, SCL-6274, Chart No. 1.

1.2.5.2 Sub-Task E2: 36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1.

1.2.5.3 Sub-Task E3: 36-Month Storage and Discharge, SCL-6274, Chart No. 2.

1.2.5.4 Sub-Task E4: Battery Assembly with Mechanical Testing, Storage and Discharge, SCL-6274, Table I.

1.2.6 Task F: Test and Evaluation of Type 625R Cell.

1.2.6.1 Sub-Task F1: Initial Discharge, SCL-6274, Chart No. 1.

1.2.6.2 Sub-Task F2: 36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1.

1.2.6.3 Sub-Task F3: 36-Month Storage and Discharge, SCL-6274, Chart No. 3.

1.2.6.4 Sub-Task F4: 12-Month Storage and Intermittent Discharge, SCL-6274, Chart No. 4.

1.2.6.5 Sub-Task F5: 12-Month Cyclic Storage and Discharge, SCL-6274, Chart No. 5.

1.2.6.6 Sub-Task F6: 3-Month Storage and Discharge, SCL-6274, Chart No. 7.

1.2.6.7 Sub-Task F7: Battery Assembly with Mechanical Testing, Storage and Discharge, SCL-6274, Table I.

1.2.7 Task G: Test and Evaluation Type 502R Cell.

1.2.7.1 Sub-Task G1: Initial Discharge, SCL-6274, Chart No. 1.

1.2.7.2 Sub-Task G2: 36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1.

- 1.2.8 Task H: Test and Evaluation of Type 601 Cell.
 - 1.2.8.1 Sub-Task H1: Initial Discharge, SCL-6274, Chart No. 1.
 - 1.2.8.2 Sub-Task H2: 36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1.
- 1.2.9 Task I: Test and Evaluation of Type 650R Cell.
 - 1.2.9.1 Sub-Task I1: Initial Discharge, SCL-6274, Chart No. 1.
 - 1.2.9.2 Sub-Task I2: 36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1.
- 1.2.10 Task J: Test and Evaluation of Type 675R Cell.
 - 1.2.10.1 Sub-Task J1: Initial Discharge, SCL-6274, Chart No. 1.
 - 1.2.10.2 Sub-Task J2: 36-Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1.
 - 1.2.10.3 Sub-Task J3: Battery Assembly with Mechanical Testing, Storage and Discharge, SCL-6274, Table I.

ABSTRACT

2.1

Task B: Test and Evaluation of Type 12R Cells

Work continued on the program for Initial Discharge of 12R cells. The tests at 55° F have not been completed at this time.

Monthly EMF readings were taken on 12R cells stored at 70° F.

Type 12R cells were placed in cyclic storage of 0 - 130° F for a twelve month program. Six month cells were discharged.

Type 12R cells stored at 160° F were tested after 1, 2, 3 and 6 months storage. Cells stored for three months at 115° F were tested. Six month tests on cells stored at -20, 20, 70 and 115° F were tested.

2.2

Task C: Test and Evaluation of Type 42R Cell

Monthly EMF readings were taken on 42R cells stored at 70° F.

Work continued on the program of Initial Discharge of 42R cells. The tests at 55° F have not been completed at this time.

Cells placed in storage at temperatures of from

-20° to 115°F were removed for the twelve month discharge tests at the 1000 hour rate.

2.3

Task D: Test and Evaluation of Type 640R Cell

Work was started on the program of Initial Discharge of 640R cells. The tests at 55°F have not been completed.

Monthly EMF readings were taken on 640R cells stored at 70°F .

Over seven thousand 640R cells were distributed among five storage temperatures from -20° to $+160^{\circ}\text{F}$ to provide up to thirty-six months of storage.

3.1 1 March 1961 at the Mallory Battery Company Engineering Annex, Elmsford, New York.

The attending Signal Corps personnel was Mr. A. Lockwood. The Mallory Battery Company was represented by C. G. Birdsall and R. M. Goodman.

Discussion was held on the test facilities in the Engineering Annex, the test procedures and the test program for the coming months.

3.2 13 July 1961 at Mallory Battery Company Engineering Annex, Elmsford, New York.

The attending Signal Corps personnel were Messrs. A. Lockwood and J. Hovendon. The Mallory Battery Company was represented by C. G. Birdsall and R. M. Goodman.

Discussion was held on the dispersion of test group samples as related to the application of test data to battery design. It was agreed that a criteria should be established to confine cell testing within meaningful limits.

3.3 9 August 1961 at Fort Monmouth, New Jersey. The attending Signal Corps personnel were Messrs. A. Lockwood and J. Hovendon. Mallory Battery Company

was represented by F. P. Schiro, C. C. Birdsall, and R. M. Goodman.

Discussion was held on the "coafficient of variation" of cell test groups and the need for revision of Technical Requirements SCL-6274.

3.4

16 August 1961 at Fort Monmouth, New Jersey.

The attending Signal Corps personnel were Messrs. A. Lockwood and J. Hovendon, Mallory Battery Company was represented by R. M. Goodman.

Further discussion on revision of the Technical Requirements, SCL-6274 was held.

FACTUAL DATA4.1 Task A: Test Facilities and Procedures

4.1.1 There is nothing to report this period on test facilities and procedures.

4.2 Task B: Test and Evaluation of Type 12R Cell

4.2.1 Sub-Task B1: Initial Discharge, SCL-6274, Chart No. 1.

4.2.1.1 Work continued during this period on the initial discharge of 12R cells. These initial discharges were run in accordance with Chart No. 1 of SCL-6274. The test results are summarized in Table 1 (at the end of this section). Tests at 55°F still have to be run.

4.2.2 Sub-Task B2: 36 Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1

4.2.2.1 Monthly EMF readings have been made on a group of fifty 12R cells stored at 70°F. The summary of data for 12 months of storage is shown in Table 2.

4.2.3 Sub-Task B3: 36 Month Storage and Discharge, SCL-6274, Chart No. 2

4.2.3.1 From the 8581 type 12R cells in storage at temperatures

of -20, +20, +70, +115° and +160°F, cells have been withdrawn for testing and evaluation at 1, 2, 3, and 6 months. The results are shown in Tables 3, 4, 5, 6 and 7.

4.2.4 Sub-Task B4: 12 Months Storage with Intermittent Discharge, SCL-6274, Chart No. 4

4.2.4.1 No work was done on Sub-Task B4 during this period.

4.2.5 Sub-Task B5: 12 Month Cyclic Storage and Discharge, SCL-6274, Chart No. 5

4.2.5.1 For this test cyclic storage between 0° and 130°F was provided through the facilities of the Signal Corps Engineering Laboratories at Fort Monmouth, New Jersey. After one and six months of cyclic storage twenty-four cells were tested at Mallory Battery Company. The results are contained in Table 8.

4.2.6 Sub-Task B6: 3 Month Storage and Discharge, SCL-6274, Chart No. 7

4.2.6.1 No work was done on Sub-Task B6.

4.3 Task C: Test and Evaluation of Type 42R Cells

4.3.1 Sub-Task C1: Initial Discharge, SCL-6274, Chart No.1

4.3.1.1 Work progressed during this period on the initial discharge of 42R cells. The initial discharges were run in accordance with Chart No. 1 of SCL-6274. The test results are summarized in Table 9 (at the end of this section). Tests at 55° still have to be run.

4.4 Task D: Test and Evaluation of Type 640R Cell

4.4.1 Sub-Task D1: Initial Discharge, SCL-6274, Chart No. 1

4.4.1.1 Work progressed during this period on the initial discharge of 640R cells. The initial discharges were run in accordance with Chart No. 1 of SCL-6274. The test results are summarized in Table 11 (at the end of this section). Tests at 55° still have to be run.

4.4.2 Sub-Task D2: 36 Month Storage with Monthly EMF Readings, SCL-6274, Par. 3.2.1

4.4.2.1 Monthly EMF readings were taken on a group of fifty 640R cells stored at 70°. The summary of data for 9 months of storage is shown in Table 12.

4.4.3 Sub-Task D3: 36 Month Storage and Discharge, SCL-6274, Chart No. 3.

4.4.3.1 From the 9141 type 640R cells in storage at temperatures of -20° , $+20^{\circ}$, $+70^{\circ}$, $+115^{\circ}$ and $+160^{\circ}$ F, cells have been withdrawn for testing and evaluation at 1 and 2 months at 160° F. The results are shown in Tables 13 and 14.

4.4.4 4.4.4 Sub-Task D4: 12 Month Cyclic Storage and Discharge,
SCL-6274, Chart No. 5.

4.4.4.1 For this test cyclic storage between 0° and 130° F was provided through the facilities of the Signal Corps Engineering Laboratories at Fort Monmouth, New Jersey.

After one month of cyclic storage twenty-four cells were tested at the Mallory Battery Company. The results are contained in Table 15.

4.4.5 Sub-Task D5: 3 Month Storage and Discharge, SCL-6274,
Chart No. 7.

4.4.5.1 No work was done on Sub-Task D5.

TABLE 1: SUMMARY OF INITIAL DISCHARGE OF TYPE 12R CELL

Load in Ohms	Temperature of Discharge, °F.	Hours to 0.90 Volt				Discharge Numbers
		Mean	Median	Maximum	Minimum	
2.2	40	0.10	0.10	0.15	0.05	511, 512, 547
	55	0.28	0.24	0.50	0.10	364, 365, 513
	70	6.39	6.30	7.90	5.80	517, 518, 545
	115	6.29	6.40	8.00	5.40	519, 550, 551
	160	3.07	3.45	4.35	0.85	411, 412, 555
2.7	40	0.06	0.05	0.15	0.05	413, 414, 548
	55	1.54	1.53	3.30	0.10	378, 382, 514
	70	7.98	7.71	11.00	7.00	389, 390, 516
	115	7.82	7.80	8.40	7.15	395, 396, 552
	160	4.83	5.11	9.00	0.80	521, 522, 556
3.0	40	0.12	0.10	0.20	0.05	444, 445, 567
	55	4.90	5.90	6.50	0.35	377, 383, 525
	70	9.58	9.63	10.90	5.40	407, 408, 526
	115	9.60	9.56	10.20	9.25	409, 410, 515
	160	3.90	2.40	7.45	1.60	523, 524, 570
4.0	20	0.20	0.21	0.30	0.15	397, 398, 480
	40	0.33	0.35	0.75	0.05	415, 416, 481
	55	11.65	11.50	13.67	10.80	51, 57, 58
	70	13.87	13.76	14.60	13.20	399, 400, 482
	115	11.44	12.70	13.50	3.10	427, 428, 483
5.6	200	3.66	3.54	4.90	2.40	429, 430, 484
	40	0.20	0.18	0.40	0.10	756, 757, 758
	55	0.36	0.23	0.90	0.05	405, 406, 568
	70	15.50	15.70	16.50	14.55	122, 142, 497
	115	16.54	16.19	18.20	15.40	379, 380, 569
200	160	15.59	16.50	17.40	15.00	146, 149, 499
	200	5.61	5.60	7.80	4.10	507, 519, 520

(CONT'D) TABLE 1: SUMMARY OF INITIAL DISCHARGE OF TYPE 12R CELL

Load in Ohms	Temperature of Discharge, °F.	Hours to 0.90 Volt				Discharge Numbers
		Mean	Median	Maximum	Minimum	
8.2	-20	0.15	0.15	0.25	0.05	759, 760, 761
	0	0.15	0.15	0.25	0.05	762, 763, 764
	20	0.21	0.20	0.30	0.15	526, 527, 565
	40	0.68	0.63	2.15	0.05	71, 79, 566
	55	23.40	23.52	24.20	22.30	123, 143, 505
	70	24.64	24.08	27.50	24.00	355, 356, 363
	115	13.42	7.14	24.80	6.15	357, 362, 509
	160	8.04	8.30	10.50	6.90	1128, 1129, 1130
	200	8.44	8.30	10.50	6.90	360, 361, 508
	12.0	0.22	0.20	0.25	0.15	915, 916, 917
12.0	0	0.38	0.33	0.75	0.20	956, 957, 958
	20	0.64	0.51	1.70	0.20	810, 811, 812
	40	10.21	9.33	18.40	5.95	1039, 1040, 1041
	55	36.58	36.20	39.40	34.70	844, 845, 846
	70	36.13	36.34	38.00	33.20	1009, 1010, 1011
	115	34.99	36.57	39.05	15.40	1108, 1109, 1110
	160	16.25	16.45	18.20	13.15	858, 859, 860
	200	0.28	0.28	0.35	0.15	847, 848, 849
	-20	0.56	0.45	1.60	0.30	985, 986, 987
	0	1.68	1.73	3.50	0.60	1095, 1096, 1097
15.0	20	7.36	6.08	17.95	3.05	1072, 1073, 1074
	40	46.53	46.44	48.65	44.20	1131, 1132, 1133
	55	44.19	44.70	46.20	41.75	930, 931, 932
	70	42.48	44.75	46.40	20.00	1114, 1115, 1116
	115	22.59	22.07	41.20	17.05	855, 856, 857
	160					
	200					

(CONT'D) TABLE 1: SUMMARY OF INITIAL DISCHARGE OF TYPE 12R CELL

Load in Ohms	Temperature of Discharge, °F.	Hours to 0.90 Volt					Discharge Numbers
		Mean	Median	Maximum	Minimum		
33.0	-20	0.86	0.90	1.15	0.50	393, 394, 601	
	0	2.79	2.30	6.30	1.05	939, 940, 941	
	20	8.76	8.00	15.00	4.30	375, 376, 510	
40	-20	101.98	102.00	107.70	97.00	115, 278, 279	
55							
70	-20	102.07	103.10	107.90	97.60	52, 72, 1368	
115	215	94.48	97.80	103.30	42.10	75, 83, 458	
260	260	85.45	83.60	101.70	47.00	373, 374, 459	
200	200	68.87	67.87	89.60	48.30	391, 392, 571	
39							
20	-20	8.45	7.04	13.35	5.15	104, 115	
160	160	100.63	101.62	119.30	80.50	119, 120, 138	
200	200	84.99	84.42	106.60	69.20	208, 280, 281	
56	0	7.27	7.46	15.25	1.70	90, 91	
100	-20	8.08	7.97	11.20	5.30	94	
120	-20	12.24	12.27	12.95	11.40	127	
130	-20	16.84	16.03	27.10	11.90	139, 140, 130	
150	-20	17.93	18.16	36.00	3.70	125, 130, 141	
220	0	163.59	157.55	262.10	105, 10	341, 342, 343, 344	
330	-20	118.03	121.96	151.30	36.10	226, 252, 277	

TABLE 2: EMF READINGS OF TYPE 12R CELL

EMF Reading In Volts	Initial	Distribution of EMF Readings Months of Storage at 70°F.											
		1	2	3	4	5	6	7	8	9	10	11	12
1.3550-1.3554	Initial	1	2	3	4	5	6	7	8	9	10	11	12
1.3545-1.3549	2	1											
1.3540-1.3544	3	2											
1.3535-1.3539	18	15	1	1									
1.3530-1.3534	24	26	3	0	1	1	1						
1.3525-1.3529	2	4	18	5	0	0	1						
1.3420-1.3524	1	2	21	18	9	5	16	1	1				
1.3515-1.3519		5	21	22	21	22	3	0	1				
1.3510-1.3514		2	3	14	18	6	16	3	0				1
1.3505-1.3509			0	1	2	2	23	21	6				0
1.3500-1.3504			2	1	1	0	4	18	22				2
1.3495-1.3499				1	0	1	0	3	15				14
1.3490-1.3494				1	2		1	1	3				19
1.3485-1.3489					0				1				10
1.3480-1.3484						1							1
1.3475-1.3479							1						1
1.3470-1.3474								1					0
1.3465-1.3469									1				0
1.3460-1.3464										1			1
1.3455-1.3459											0		
1.3450-1.3454											1		

Note: No readings were made during the 10th and 11th months

because the storage was not 70°F.

TABLE 3: 12R STORAGE FOR ONE MONTH AT 160° F

Discharge Loads	Discharge Temperatures in °F					200°
	-20°	40°	70°	115°	160°	
5 Hour Rate	3.3 ohms	3.3 ohms	3.3 ohms	3.3 ohms	3.3 ohms	3.3 ohms
10 Hour Rate	4.7 ohms	4.4 ohms	4.4 ohms	4.7 ohms	4.7 ohms	4.7 ohms
100 Hour Rate	33 ohms	33 ohms	33 ohms	33 ohms	33 ohms	33 ohms
5 Hour Rate						
Mean		0.63				4.65
Med.		0.40				3.19
Max.		1.00				10.05
Min.		0.30				0.95
Discharge Nos.		645				638, 639
10 Hours Rate						
Mean	0.37	8.39	14.23	6.95		2.72
Med.	0.34	8.53	14.21	7.53		2.60
Max.	0.75	10.50	15.30	14.90		11.60
Min.	0.20	4.10	13.40	1.30		1.70
Discharge Nos.	557, 558, 608	105	541, 542	535, 536		559, 560,
	609	106	543, 544	537, 538		606, 607
100 Hour Rate						
Mean	1.39	96.02	99.28	87.58		
Med.	1.30	97.02	99.11	97.63		
Max.	2.00	104.60	105.80	103.30		
Min.	1.00	70.60	92.30	3.10		
Discharge Nos.	539, 610	148, 147	99, 100	116, 117		
	553, 554	124, 210	101, 102	118, 203		

TABLE 4: 12R STORAGE FOR TWO MONTHS AT 160°F

Discharge Loads	Discharge Temperatures in 0°F					
	-20°	0°	40°	70°	115°	160°
5 Hour Rate	3.0 ohms	3.0 ohms	3.0 ohms	3.0 ohms	3.0 ohms	3.0 ohms
10 Hour Rate	4.7 ohms	4.7 ohms	4.7 ohms	4.7 ohms	4.7 ohms	4.7 ohms
100 Hour Rate	33 ohms	33 ohms	33 ohms	33 ohms	33 ohms	33 ohms
5 Hour Rate	0.17	2.98	10.26	9.15	1.99	2.29
Mean	0.16	2.62	10.29	9.62	1.49	1.90
Med.	0.25	6.55	11.35	10.20	8.60	7.10
Max.	0.05	0.45	9.80	1.25	1.15	1.45
Min.	703, 704	668, 1042	709, 710	684, 685	798, 799	1048, 1049
Discharge Nos.	705, 706	1043	711, 712	686, 687	800, 801	1050, 1051
10 Hour Rate	0.24	0.83	14.54	4.21	2.14	
Mean	0.23	0.41	14.50	1.88	2.12	
Med.	0.80	5.65	15.65	14.10	2.65	
Max.	0.00	0.28	13.80	1.50	1.85	
Min.	653, 654	198, 199	770, 771	643, 644	794, 795	
Discharge Nos.	655, 656	200, 201	772, 773	701, 702	796, 797	
100 Hour Rate	0.05	29.15	97.44	70.94		
Mean	0.41	16.60	98.09	68.80		
Med.	1.30	90.85	103.80	102.45		
Max.	0.02	10.00	81.80	30.50		
Min.	669, 670	217, 218	171, 173	212, 213		
Discharge Nos.	707, 708	666, 667	174, 688	635, 636		

TABLE 5: 12R STORAGE FOR THREE MONTHS AT 160°F

Discharge Loads		Discharge Temperatures °F.					
		-200	0°	40°	70°	1150	160°
5 Hour Rate	3.3 ohms	3.3 ohms	3.3 ohms	3.3 ohms	3.3 ohms	3.3 ohms	3.3 ohms
10 Hour Rate	4.7 ohms	4.7 ohms	4.7 ohms	4.7 ohms	4.7 ohms	4.7 ohms	4.7 ohms
100 Hour Rate	33 ohms	33 ohms	33 ohms	33 ohms	33 ohms	33 ohms	33 ohms
5 Hour Rate							
Mean	0.29	0.37	0.74	0.98	0.90	1.50	
Med.	0.27	0.37	0.76	0.88	0.85	1.57	
Max.	0.45	0.50	0.85	1.25	1.25	2.25	
Min.	0.20	0.02	0.69	0.65	0.65	0.35	
Discharge Nos.	1083, 1084	967, 968	959, 960	1184, 1183	963, 964	1056, 1057	
	1085, 1086	969, 970	961, 962	965, 966	965, 966	1058, 1059	
	971, 972						
10 Hour Rate							
Mean	0.16	0.43	0.71	2.35	2.74	1.88	
Med.	0.15	0.50	0.86	1.43	1.60	1.80	
Max.	0.20	0.70	1.10	12.75	11.85	2.90	
Min.	0.15	0.10	0.70	1.10	1.25	0.95	
Discharge Nos.	1119, 1120	1117, 1121	256, 257	1145, 1146	1185, 1186	948, 949	
	1118	853, 854				950, 951	
100 Hour Rate							
Mean	2.57	4.71	25.00	93.98	60.34		
Med.	2.55	3.40	15.00	96.70	11.64		
Max.	3.00	12.60	97.80	102.80	125.00		
Min.	2.10	2.20	11.00	62.20	9.50		
Discharge Nos.	1165, 1166	1167, 1168	247, 248	231, 232	254, 255		
		249, 250	233, 234	259, 260			

TABLE 6: 12R STORAGE FOR THREE MONTHS AT 115°F

Discharge Loads	Discharge Temperatures °F.					
	-20°	0°	40°	70°	115°	160°
5 Hour Rate	3.3 ohms	3.3 ohms	3.3 ohms	3.3 ohms	3.3 ohms	3.3 ohms
10 Hour Rate	4.7 ohms	4.7 ohms	4.7 ohms	4.7 ohms	4.7 ohms	4.7 ohms
100 Hour Rate	33 ohms	33 ohms	33 ohms	33 ohms	33 ohms	33 ohms
5 Hour Rate						
Mean	0.13	1.15	10.21	9.66	2.02	3.22
Med.	0.12	0.81	10.13	9.39	1.85	1.85
Max.	0.30	5.50	11.65	9.90	7.85	8.65
Min.	0.05	0.25	9.60	8.70	1.55	1.25
Discharge Nos.	992, 993	988, 989	1005, 1006	1187, 1188	944, 945	1060, 1061
	994, 995	990, 991	1007, 1008	1189	946, 947	1062, 1063
10 Hour Rate						
Mean	0.21	9.70	14.88	2.74	2.49	2.38
Med.	0.25	9.66	14.70	1.60		
Max.	0.30	11.50	16.60	11.85	2.75	
Min.	0.05	0.10	0.30	13.20	1.25	1.90
Discharge Nos.	1198, 1199	1174, 1175	369, 370	1053, 1052	1185, 1186	975, 976
	1200	371, 372	1054, 1055		977, 978	
100 Hour Rate						
Mean	0.82	2.44	72.40	101.40	85.78	
Med.	0.83	2.12	83.60	101.91	96.00	
Max.	1.05	4.75	99.10	105.60	125.00	
Min.	0.60	0.65	11.60	96.00	21.00	
Discharge Nos.	1201, 1202	1220, 1221	262, 263	220, 221	251, 255	
	1203	1222	264, 299	222, 223	367, 368	

TABLE 7: 32R STORAGE FOR SIX MONTHS

		Discharge Temperatures °F					
		40	70	115	160	200	250
5 Hour Rate 3.3 Ohms							
6 mo. @ 20°F	Mean	0.21	7.15	9.78	10.37	14.67	17.19
	Med	0.20	6.99	9.75	10.32	13.97	16.88
	Max	0.40	9.00	10.95	11.25	18.45	19.95
	Min	0.10	5.85	8.85	9.20	1.85	3.90
Discharge Nos	716,717	652,662	677,678	646,647	733,734	1030,1031	
6 mo. @ 20°F	718,719	663,664	679,680	648,649	735,736	1032,1033	
6 mo. @ 70°F	Mean	0.35	5.27	9.70	9.88	2.25	6.00
	Med	0.33	5.24	9.65	9.76	2.03	5.37
	Max	0.60	7.50	11.00	10.90	6.50	10.30
	Min	0.20	1.25	8.25	9.20	1.10	2.25
Discharge Nos	739,740	835,836	726,727,	689,690,	790,791,	1044,1045	
6 mo. @ 70°F	741,742	837,838	728,729	691,692	792,793	1046,1047	
6 mo. @ 115°F	Mean	0.08	4.98	9.13	9.63	3.23	5.07
	Med	0.10	5.36	9.36	9.62	2.23	4.93
	Max	0.20	7.40	10.55	10.20	7.70	7.60
	Min	0.05	0.35	5.40	9.15	1.60	3.95
Discharge Nos	444,445	377,383	407,408	409,410	523,524,570	1015,1016	
6 mo. @ 115°F	567,774,775	525,870	506,737,738	515,720,721	776,777	1017,1018	
	Mean	0.18	0.35	8.42	8.79	6.07	2.77
	Med	0.17	0.35	8.25	8.92	8.70	3.00
	Max	0.25	0.50	10.25	10.20	9.65	6.70
	Min	0.10	0.25	7.75	2.80	1.05	1.40
Discharge Nos	751,752,	1028,	747,748,	722,723,724	784,785	1037,1038	
		1029	749,750	725,743,744			

TABLE 8: ONE AND SIX MONTH CYCLIC STORAGE OF 12R TYPE CELL

Storage Temperature	Cyclic 0°-130°		70°
Storage Time	1 Month	6 Months	Initial
Load in Ohms	4.7	4.7	4.7
70°F Rate	10 Hr	10 Hr	10 Hr
Discharge Nos.	235, 236, 238, 239	385, 386, 387, 388	51, 57, 58
Number of Cells	24	24	15
Hours	Mean	11.20	5.7
to	Med	11.15	6.9
0.90	Max	14.40	10.5
Volt	Min	9.10	0.2
			10.80

TABLE 9: SUMMARY OF INITIAL DISCHARGE OF TYPE 42R CELL

Load in Ohms	Temperature of Discharge, °F.	Hours to 0.90 Volt				Discharge Numbers
		Mean	Median	Maximum	Minimum	
0.68	70	1.17	0.21	5.65	0.10	494, 942, 943
	115	6.29	6.12	7.45	5.30	1034, 1035, 1036
	160	9.21	8.93	11.05	7.10	1091, 1092, 1093
	200	8.10	7.66	10.30	6.35	952, 953, 954
		Less than 0.02			864, 865, 866	
0.75	-20	Less than 0.02			878, 879, 880	
	20	0.06	0.05	0.10	0.05	1135, 1136, 1137
	40	5.12	5.16	12.55	3.80	490, 493, 839
	55	6.22	6.17	7.35	5.25	781, 782, 783
	70	9.70	9.74	10.40	9.00	745, 746, 766
1.02	115	9.74	9.95	10.55	9.15	808, 809, 840
	160					
	200					
1.2	20	0.11	0.10	0.15	0.10	425, 426, 448
	40	0.11	0.10	0.20	0.05	423, 424, 449
	55	2.60	2.47	10.90	7.80	32, 33, 40, 41
	70	15.53	15.15	19.50	11.55	403, 404, 450
	115	15.90	15.80	17.00	15.10	451, 462, 463
1.6	160	13.73	11.12	15.05	11.05	460, 461, 714
	200					
1.8	20	0.13	0.13	0.20	0.10	464, 598, 599
	40	0.14	0.12	0.20	0.10	433, 434, 465
	55	15.27	15.32	16.70	11.80	36, 37, 45, 46
	70	23.61	23.60	24.50	22.40	442, 443, 466
	115					
1.9	160	23.37	23.32	24.70	22.30	467, 468, 469
	200	18.49	18.28	22.10	15.50	596, 597, 715

(CONT'D) TABLE 9: SUMMARY OF INITIAL DISCHARGE OF TYPE 12R CELL

Load in Ohms	Temperature of Discharge, °F.	Hours to 0.90 Volt				Discharge Numbers
		Mean	Median	Maximum	Minimum	
2.2	-20	0.02	0.02	0.10	0.00	765, 769, 789
	0	0.12	0.10	0.25	0.05	903, 904, 905
	20	0.14	0.11	0.20	0.00	767, 768, 713
	40	1.79	0.66	12.60	0.15	470, 471, 472
	55	24.82	24.70	27.50	22.10	431, 446, 447
	70	28.50	28.23	29.30	26.40	417, 418, 441
	115	28.38	28.50	30.80	26.80	419, 420, 440
	160	22.35	22.92	26.50	15.90	421, 422, 595
	200					
3.0	-20	0.13	0.15	0.25	0.10	936, 937, 938
	0	0.21	0.21	0.30	0.15	888, 889, 890
	20	0.24	0.23	0.35	0.15	906, 907, 908
	40	1.52	1.55	3.10	0.15	927, 928, 929
	55					
	70	42.45	41.37	51.10	38.75	881, 882, 883
	115	42.41	41.81	48.55	40.30	884, 885, 886
	160	41.10	41.08	43.75	39.20	1159, 1160, 1161
	200	35.79	36.67	41.70	28.15	909, 910, 911
4.0	-20	0.30	0.30	0.35	0.25	979, 980, 981
	0	0.36	0.36	0.50	0.25	1125, 1126, 1127
	20	0.78	0.69	1.60	0.50	982, 983, 984
	40	20.60	19.49	32.60	10.75	1025, 1026, 1027
	55					
	70	59.26	58.58	65.00	56.55	832, 833, 834
	115	59.21	57.00	64.05	55.80	778, 779, 780
	160	56.81	56.60	62.30	50.85	1162, 1163, 1164
	200	48.97	49.54	57.00	43.20	912, 913, 914

(CONT'D) TABLE 9: SUMMARY OF INITIAL DISCHARGE OF TYPE 42R CELL

Load in Ohms	Temperature of Discharge, ° F.	Hours to 0.9 Volt			Minimum	Discharge Numbers
		Mean	Median	Maximum		
8.2	-20	0.11	0.39	0.45	0.25	401, 402, 640
	0	0.73	0.75	0.85	0.45	1022, 1023, 1024
	20	4.20	3.95	6.70	2.25	437, 438, 474
	40	56.49	56.92	65.40	48.30	435, 436, 473
	55					
	70	98.36	96.80	100.60	80.30	38, 39, 47, 48
	115	99.25	98.96	104.50	95.50	452, 453, 475
	160	93.74	94.56	97.60	87.10	439, 454, 455, 477
	200	88.70	88.72	94.70	72.00	456, 457, 478
	-20	1.46	1.48	1.69	1.30	1019, 1020, 1021
	0	1.94	1.89	2.55	1.50	1079, 1080, 1081
	20	51.42	60.56	101.30	18.45	924, 925, 926
	40	180.74	186.30	197.70	151.75	875, 876, 877
	55					
	70	193.66	191.03	201.70	188.00	872, 873, 874

TABLE 10: EMF READINGS OF TYPE 42R CELL

EMF READINGS IN VOLTS	Initial	Distribution of EMF Readings Months of Storage at 70°F											
		1	2	3	4	5	6	7	8	9	10	11	12
1.3580-1.3584	Initial	1	2	3	4	5	6	7	8	9	10	11	12
1.3575-1.3579													
1.3570-1.3574	3	3											
1.3565-1.3569	20	24	11										
1.3560-1.3564	20	14	21	17	15	21	14						
1.3555-1.3559	1	4	12	19	20	16	23	3	2	1			
1.3550-1.3554	5	3	2	9	10	7	5	16	15	11			
1.3545-1.3549	1	1	3	2	2	3	3	19	20	22			4
1.3540-1.3544			1	3	3	2	2	7	7	10			24
1.3535-1.3539					1	1	1	2	3	2			22
1.3530-1.3534								2	2	3			5
1.3525-1.3529								1	1	1			3
1.3520-1.3524													2
1.3515-1.3519													

Note: No readings were made during the 10th and 11th months because the storage was not 70°F.

TABLE 11: SUMMARY OF INITIAL DISCHARGE OF TYPE 640R CELL

Load in Ohms	Temperature of Discharge, °F.	Hours to 0.90 Volt				Discharge Number
		Mean	Median	Maximum	Minimum	
18						
20	0.13	0.12	0.35	0.05	698, 699, 700	
40	0.12	0.12	0.20	0.05	583, 696, 697	
55						
70	1.39	0.88	4.80	0.30	485, 572, 573	
115	9.38	9.31	10.50	8.55	577, 578, 819	
160	8.99	8.76	13.45	7.40	681, 682, 683	
200	8.32	8.26	9.50	7.05	813, 814, 815	
22						
20	0.05	0.05	0.10	0.00	617, 618, 619	
40	0.15	0.14	0.45	0.05	600, 602, 603	
55						
70	4.65	4.20	6.50	0.60	486, 496, 571	
115	11.29	11.20	12.20	10.70	579, 580, 604	
160	10.50	10.64	12.20	8.20	581, 582, 605	
200	10.16	10.27	11.05	8.40	850, 851, 852	
27						
20	0.14	0.15	0.20	0.10	610, 611, 612	
40	0.27	0.21	0.55	0.10	613, 614, 615	
55						
70	8.39	8.99	12.80	1.45	487, 495, 616	
115	13.59	13.51	14.50	12.70	629, 630, 631	
160	11.38	11.75	12.95	8.95	626, 627, 628	
200	11.52	12.08	13.85	2.70	861, 862, 863	
39						
0	0.12	0.12	0.25	0.10	826, 827, 828	
20	0.21	0.19	0.50	0.05	693, 694, 695	
40	0.62	0.59	1.10	0.40	650, 651, 867	
55						
70	17.63	17.80	20.10	15.20	501, 673, 674	
115	19.28	18.93	21.45	17.35	623, 624, 625	
160	16.97	18.24	19.85	10.45	620, 621, 622	
200	17.87	18.44	20.35	4.25	996, 997, 998	

(CONT'D) TABLE 11: SUMMARY OF INITIAL DISCHARGE OF TYPE 640R CELL

Load in Ohms	Temperature of Discharge, °F.	Hours to 0.90 Volt			Minimum	Discharge Numbers
		Mean	Median	Maximum		
47	0	0.11	0.10	0.20	0.10	841, 842, 843
	20	0.20	0.18	0.30	0.10	657, 658, 659
40	1.11	1.11	1.00	1.80	0.55	632, 633, 634
55						
70	21.29	21.04	23.70	18.70	502, 671, 672	
115	22.60	22.65	24.75	19.75	589, 590, 591	
160	21.17	22.49	24.10	15.50	592, 593, 594	
200	20.23	22.51	23.40	5.70	675, 676, 955	
68	-20	0.25	0.25	0.30	0.20	1138, 1139, 1140
	0	0.35	0.34	0.50	0.25	867, 868, 869
20	0.52	0.53	0.75	0.30	802, 803, 804	
40	1.83	1.63	5.15	0.85	897, 898, 899	
55						
70	33.84	33.94	35.50	31.25	1012, 1013, 1014	
115	31.03	31.93	33.50	25.70	816, 817, 818	
160	29.78	31.42	33.20	20.75	1111, 1112, 1113	
200	30.63	31.92	35.05	21.95	918, 919, 920	
100	-20	0.44	0.43	0.70	0.30	1098, 1099, 1100
	0	0.53	0.55	0.70	0.35	894, 895, 896
20	1.44	1.13	4.15	0.35	805, 806, 807	
40	3.92	3.55	7.25	2.05	900, 901, 902	
55						
70	49.95	49.71	52.35	48.00	921, 922, 923	
115	45.46	46.44	52.40	31.10	823, 824, 825	
160	30.75	33.43	48.75	12.35	891, 892, 893, 1131	
200	41.48	45.05	52.75	11.90	820, 821, 322	

(CONT'D) TABLE 11: SUMMARY OF INITIAL DISCHARGE OF TYPE 610R CELL

Load in Ohms	Temperature of Discharge, °F.	Hours to 0.90 Volt				Discharge Numbers
		Mean	Median	Maximum	Minimum	
180	-20	0.77	0.75	1.00	0.55	786, 787, 788
	0	1.21	1.21	2.15	0.65	829, 830, 831
	20	4.85	4.44	10.15	1.65	586, 587, 588
	40	41.54	43.26	73.35	11.45	730, 731, 732
	55					
	70	79.87	83.82	95.20	78.80	504, 529, 530
	115	75.07	78.29	88.35	52.00	551, 562, 584
	160	72.47	75.28	88.85	47.05	563, 564, 585
	200	69.54	70.93	85.90	49.35	660, 661, 755

TABLE 12: EMF READING OF TYPE 640R CELLS

EMF READING IN VOLTS	Distribution of EMF Readings Months of Storage at 70° F									
	Initial	1	2	3	4	5	6	7	8	9
1.3570-1.3574	1									
1.3565-1.3569	8									
1.3560-1.3564	18	2		1						
1.3555-1.3559	7	11	2	3						
1.3550-1.3554	11	25	19	19						
1.3545-1.3549	2	8	20	16	2					
1.3540-1.3544	2	2	5	8	8	4				
1.3535-1.3539	1	0	3	2	19	6	2			
1.3530-1.3534		1	0	0	11	15	4			
1.3525-1.3529		1	0	0	5	13	15		1	
1.3520-1.3524			1	1	3	5	13		2	
1.3515-1.3519				1	0	3	8		6	
1.3510-1.3514					0	1	5		11	
1.3505-1.3509					1	0	1		10	
1.3500-1.3504					0	2	0		10	
1.3495-1.3499					1	0	0		3	
1.3490-1.3494						0	0		4	
1.3485-1.3489						0	1		1	
1.3480-1.3484						1	0		0	
1.3475-1.3479							0		0	
1.3470-1.3474							0		0	
1.3465-1.3469							1		1	
1.3460-1.3464									0	
1.3455-1.3459									0	
1.3420-1.3424								-29-	1	

Note: No readings were made during the 7th and 8th months because the storage was not 70° F.

TABLE 13: 640R STORAGE FOR ONE MONTH AT 160°F

		Discharge Temperature in °F.						
Discharge Loads	-20°	0°	40°	70°	115°	160°	200°	250°
10 Hour Rate	27 ohms	27 ohms	27 ohms	27 ohms	27 ohms	27 ohms	27 ohms	27 ohms
20 Hour Rate	47 ohms	47 ohms	47 ohms	47 ohms	47 ohms	47 ohms	47 ohms	47 ohms
100 Hour Rate	180 ohms	180 ohms	180 ohms	180 ohms	180 ohms	180 ohms	180 ohms	180 ohms
<u>10 Hour Rate</u>		0.47	6.38	12.50	11.84	7.29	4.65	
Mean		0.42	7.42	12.47	12.12	9.54	4.05	
Med		0.75	9.05	13.85	13.90	13.05	12.45	
Max		0.30	1.05	21.25	2.55	1.70	3.15	
Min		1204	1064,1065	1087,1068	1111,1142	1169,1170	1075,1076	
Discharge Nos.		1205	1066,1067	1089,1090	1143,1144	1190,1191	1077,1078	
<u>20 Hour Rate</u>		0.30	1.75	21.14	21.81	13.77	6.50	
Mean		0.29	1.92	21.91	21.85	14.99	5.45	
Med		0.45	2.20	24.30	23.40	24.35	21.00	
Max		0.20	1.15	17.20	19.60	2.85	3.65	
Min		1210,1211	1171,1172	1147,1148	1121	1176,1177	1196,1197	
Discharge Nos.		1173	1146,1150	1122,1123	1178,1179	1206,1207		
<u>100 Hour Rate</u>		1.44	2.46	25.09	18.80	77.89		
Mean		1.43	2.04	23.16	79.60	78.74		
Med		3.65	46.95	86.80	87.00			
Max		1.90	1.60	12.65	72.05	66.40		
Min		0.85	1180,1181	1155,1156	1068,1069	1151,1152		
Discharge Nos.		1208,1209	1182	1157,1158	1070,1071	1153,1154		

TABLE 14: 640K STORAGE FOR TWO MONTHS AT 160°F.

		Discharge Temperature in °F.						
Discharge Loads	-20°	0°	40°	70°	115°	160°	200°	250°
10 Hour Rate	27 ohms	27 ohms	27 ohms	27 ohms	27 ohms	27 ohms	27 ohms	27 ohms
20 Hour Rate	47 ohms	47 ohms	47 ohms	47 ohms	47 ohms	47 ohms	47 ohms	47 ohms
100 Hour Rate	180 ohms	180 ohms	180 ohms	180 ohms	180 ohms	180 ohms	180 ohms	180 ohms
<u>10 Hour Rate</u>								
Mean	0.63	3.76	12.09	11.61				
Med	0.45	5.02	12.17	11.70				
Max	0.95	5.60	12.80	12.70				
Min	0.35	1.15	11.45	10.50				
Discharge Nos	1212	1106,1213	1214	1223				
<u>20 Hour Rate</u>								
Mean	0.29	1.74	20.33	20.78	15.47	6.44		
Med	0.32	1.72	19.69	20.87	20.17	6.52		
Max	0.40	2.40	22.65	21.50	22.45	8.30		
Min	0.10	1.45	17.45	19.55	19.55	4.20		
Discharge Nos	1224	1215	1194,1195	1216	1225	1226		
<u>100 Hour Rate</u>								
Mean	1.11	2.54	20.44	31.40	73.31			
Med	1.45	1.90	22.00	31.52	76.10			
Max	1.65	5.10	29.40	34.75	79.80			
Min	0.20	1.75	11.80	76.25	58.10			
Discharge Nos	1217	1227	1218	1192,1193	1219			

TABLE 15: ONE-MONTH CYCLIC STORAGE OF 640R TYPE CELL

Storage Temperature	Cyclic 0°-130°F	70°
Storage Time	1 Month	Initial
Load in Ohms	27	27
70°F Rate	10 Hr	10 Hr
Discharge Nos.	531, 532, 533, 534	487, 495, 616
Number of Cells	24	15
Hours	Mean	8.4
to	Med	9.0
0.90	Max	12.8
Volt	Min	1.5

TABLE 16: CONDITION OF 12R AND 640R CELLS AFTER STORAGE
AT VARIOUS TEMPERATURES

Type	Storage Temp.	Length of Storage	Total Stored	Number Defective
12R	160°	1 Mo.	234	0
12R	160	2 Mo.	360	0
12R	160	3 Mo.	833	524
12R	115	3 Mo.	408	0
12R	115	6 Mo.	150	17
12R	-20	6 Mo.	150	1
12R	20	6 Mo.	156	2
640R	160	1 Mo.	400	41
640R	160	2 Mo.	400	258

TABLE NO. 17: COEFFICIENT OF VARIATION
FOR INITIAL DISCHARGE OF 12R CELL

		Discharge Temperature				
Load		-20°F	0°F	20°F	40°F	70°F
2.7						V 72.7% X 1.54 hrs Max 3.30 hrs Min 0.10 hrs
3.3						V 38.0% X 4.88 hrs Max 6.5 hrs Min 3.0 hrs
4.7				V 26.9% X 0.20 hrs Max 0.30 hrs Min 0.15 hrs	V 63.0% X 0.33 hrs Max 0.75 hrs Min 0.05 hrs	V 5.92% X 11.65 hrs Max 13.67 hrs Min 10.80 hrs
8.2				V 19.4% X 0.21 hrs Max 0.30 hrs Min 0.15 hrs	V 87.6% X 0.68 hrs Max 2.15 hrs Min 0.05 hrs	V 2.17% X 23.5 hrs Max 24.20 hrs Min 22.30 hrs
12	13.0%	V 6.28% X 0.22 hrs Max 0.25 hrs Min 0.15 hrs	V 4.68% X 0.38 hrs Max 0.75 hrs Min 0.20 hrs	V 31.2% X 0.64 hrs Max 1.70 hrs Min 0.20 hrs	V 3.25% X 10.21 hrs Max 18.40 hrs Min 5.95 hrs	V 3.25% X 36.6 hrs Max 39.4 hrs Min 34.7 hrs
33	V 17.1%	V 62.6% X 0.86 hrs Max 1.15 hrs Min 0.50 hrs	V 30.3% X 2.79 hrs Max 6.30 hrs Min 1.05 hrs	V 3.17% X 8.62 hrs Max 15.00 hrs Min 4.30 hrs	V 2.85% X 101.9 hrs Max 107.7 hrs Min 97.0 hrs	V 2.85% X 102.1 hrs Max 107.9 hrs Min 97.6 hrs

V is coefficient of variation
X is test group mean

TABLE 18: CONDITION OF 12R AND 64OR
CELLS AFTER STORAGE AT VARIOUS TEMPERATURES

<u>Type</u>	<u>Storage Temp.</u>	<u>Length of Storage</u>	<u>Total Stored</u>	<u>Number Defective</u>
12R	160°	1 mo.	234	0
12R	160°	2 mo.	360	0
12R	160°	3 mo.	833	524
12R	115°	3 mo.	408	0
12R	-20°	6 mo.	150	1
12R	20°	6 mo.	156	2
12R	115°	6 mo.	150	17
64OR	160°	1 mo.	400	41
64OR	160°	2 mo.	400	258
64OR	160°	3 mo.	400	380

5.1 The aim of the cell test program is to establish a wider range of mercury cell data than has heretofore been available. The limits for the data are set by the practical needs of battery design. Therefore the area of discharge rate and discharge temperature within which useful data is to be obtained should be defined and the Signal Corps Technical Requirement, SCL-6274 should be modified to be comparable with useful test results.

5.1.1 The work to date, in accordance with Signal Corps Technical Requirement, SCL-6274, has yielded data for cell types 12R, 42R and 640R, which is of questionable value for work in battery application. The pattern of test sample dispersion is consistent for these three cell types and in general typical of mercury cell performance.¹ At temperatures below 70°F the cells start to scatter widely in performance. At 70°F the cells scatter in performance at drain rates lower than about ten hours. (See Table Number 17) As much of the requirement of SCL-6274 is for testing at less than the ten-hour rate and at temperatures below 70°F a method is needed to facilitate working from the area of useful cell performance to the edge where it is no longer obtainable.

5.1.2 The coefficient of variation which is related to the scattering of cell performance is considered useful as a measurement of each test sample. It is a non-dimensional ratio of the mean value and the standard deviation of test samples.

(1) The dispersion of service in test samples for 12R cells at 70°F was presented in the conclusion of Report No. 2.

5.1.2.1 The coefficient of variation is expressed as V where,

$$V = \frac{100 \sigma}{\bar{X}} \%$$

with, σ being the sample standard deviation;
and, \bar{X} the sample mean.

5.2 From examination of the test results on initial discharge of cell types 12R, 42R and 640R, a coefficient of variation less than about ten percent has been calculated for test data considered useful for battery design. This data for the 12R cell is shown in Table Number 17.

5.2.1 When the rate of discharge and the temperature of discharge are within the area of useful cell performance a low coefficient of variation (less than ten percent) is calculated for the sample. As factors contributing to the polarization of the cells on discharge are introduced, the coefficient of variation increased. Values of from thirty to eighty percent have been calculated. As the cells drop in service to less than about one hour the test sample coefficient of variation decreases to a low value as the cell efficiency becomes uniformly low.

5.3 To use the coefficient of variation as a technique to limit cell testing through defining the area of useful cell performance requires a definite test procedure. Only by this method will the coefficient of variation be valid for the purpose. Testing as based on Chart No. 1 of SCL-6274 should be started at 70°F at the 100-hour discharge rate. From this known area of useful cell performance the work must proceed in descending order through the specified discharge rates.

The testing should then be stopped when the coefficient of variation becomes greater than ten percent. The work should then return to the 100-hour rate at the temperature of the next lower value. Again the descending order of rates from 100 hours of service should be followed. In similar fashion the entire area of useful cell performance below 100 hours at the different temperatures can be determined.

5.4

The Signal Corps Technical Requirement, SCL-6274 should be revised to include a limiting procedure for initial testing which will confine rates of discharge and temperatures to yield useable mercury battery data. The results of initial testing should then be applied to determine discharge rates for the storage and discharge schedules. Through this approach, the test program could then be accomplished.

PROGRAM FOR THE NEXT INTERVAL

- 6.1 The initial discharge of cell types 1R and 625R SCL-6274, Chart No. 1 will be started. Initial discharge will be completed for cell types 12R, 42R and 640R.
- 6.2 The monthly EMF readings will be continued for the 12R, 42R and 640R cells and started for the 1R and 625R.
- 6.3 The twelve-month storage and discharge of the 42R cells under Chart No. 6, SCL-6274 will be accomplished.
- 6.4 The twelve-month storage and discharge of the 12R cells under SCL-6274, Chart No. 2 will be accomplished.
- 6.5 The six-month storage and discharge of the 640R cells under SCL-6274, Chart 3 will be accomplished.

7.

IDENTIFICATION OF PERSONNEL

7.1

The work on this contract is under the direct supervision of Richard R. Clune, Chief Engineer, Mallory Battery Company.

7.2

Individuals and the time they spent on this project during this half are indicated below:

<u>PERSONNEL</u>	<u>HOURS ON THIS PROJECT</u>
	<u>THIS HALF</u>
R. M. Goodman	
Senior Engineer	494
P. O'Gorman	
Laboratory Technician	414
T. Quattrochi	
Laboratory Technician	894
J. Hutnik	
Laboratory Technician	408
R. Dolfinger	
Laboratory Technician	40
Total	2250

APPENDIX

		Pages
8.1	Appendix I: Initial Discharge Curves of Cell Types 12R, 42R and 640R at 70° F	42-44
8.2	Appendix II: Initial Discharge Curves of Cell Types 12R, 42R and 640R at 115° F	45-47
8.3	Appendix III: Discharge Tests, Nos 373-1227	48-161

•PRECISE•

PITTSBURGH DETROIT, CLEVELAND

B. K. ELLIOTT COMPANY

TRACE MARK

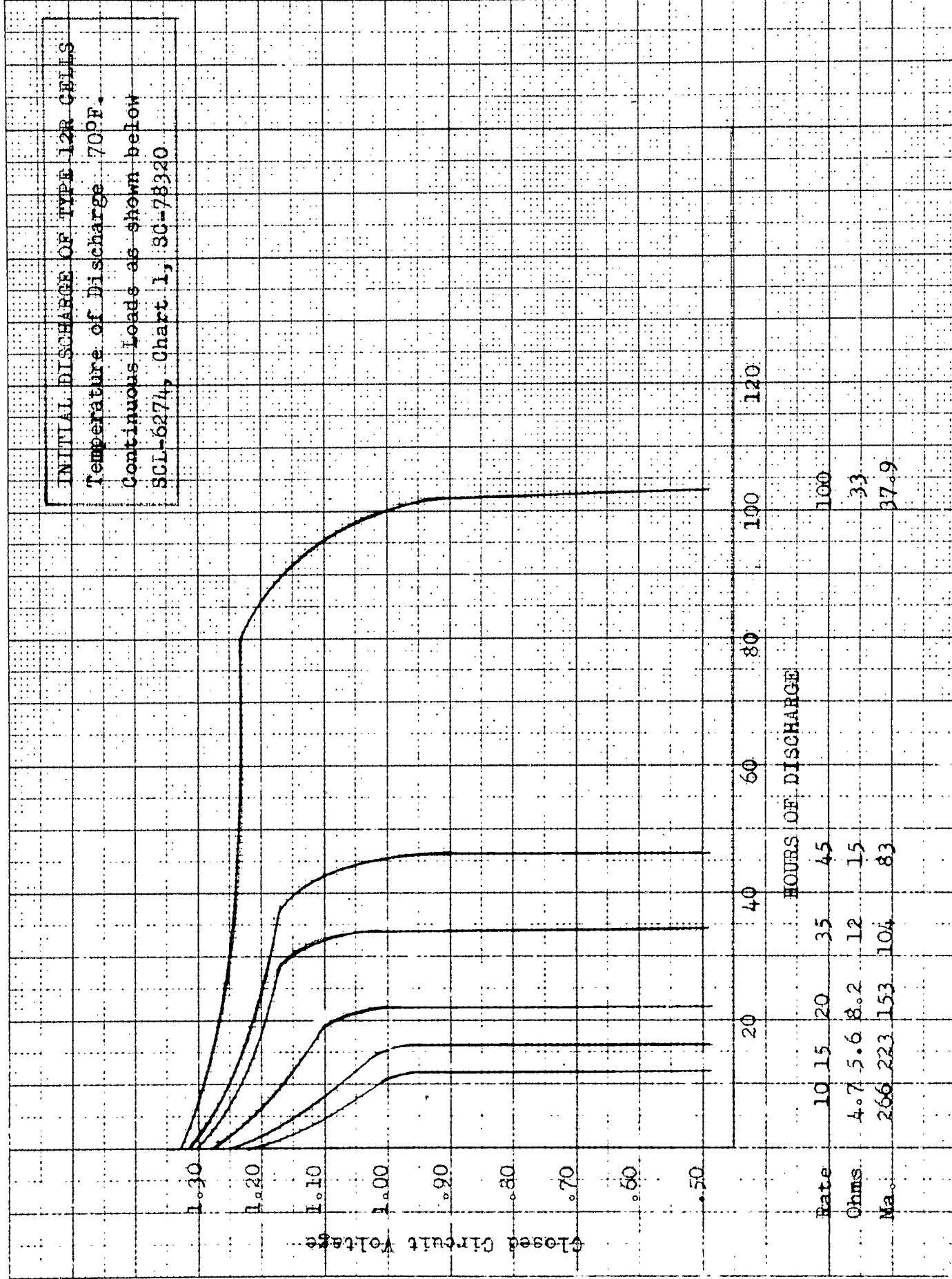
N 7767 45 x 20 1 N H

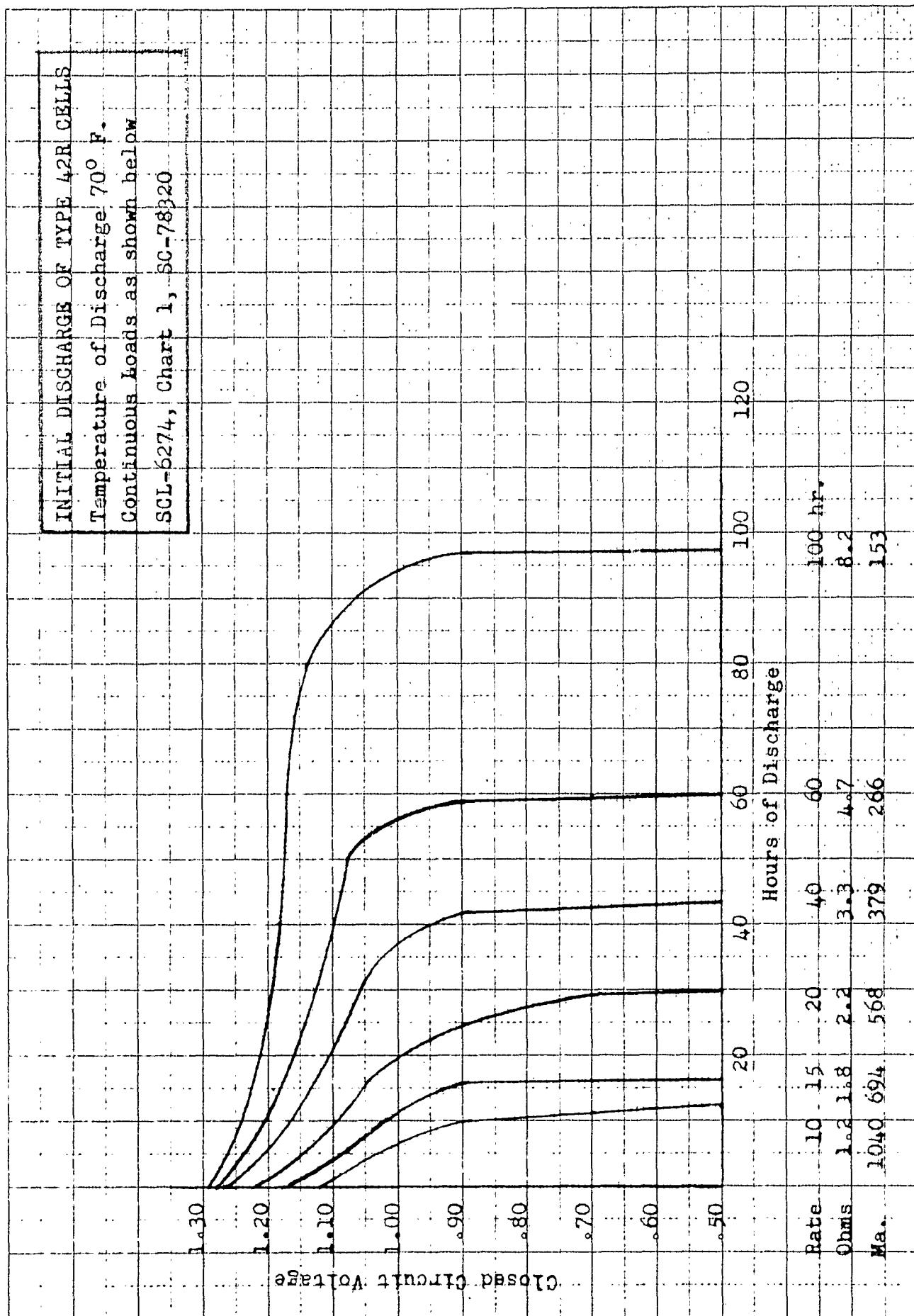
INITIAL DISCHARGE OF TYPE 12R CELLS

Temperature of Discharge 70°F

Continuous Loads as shown below

SCL-6274, Chart 1, SC-78320



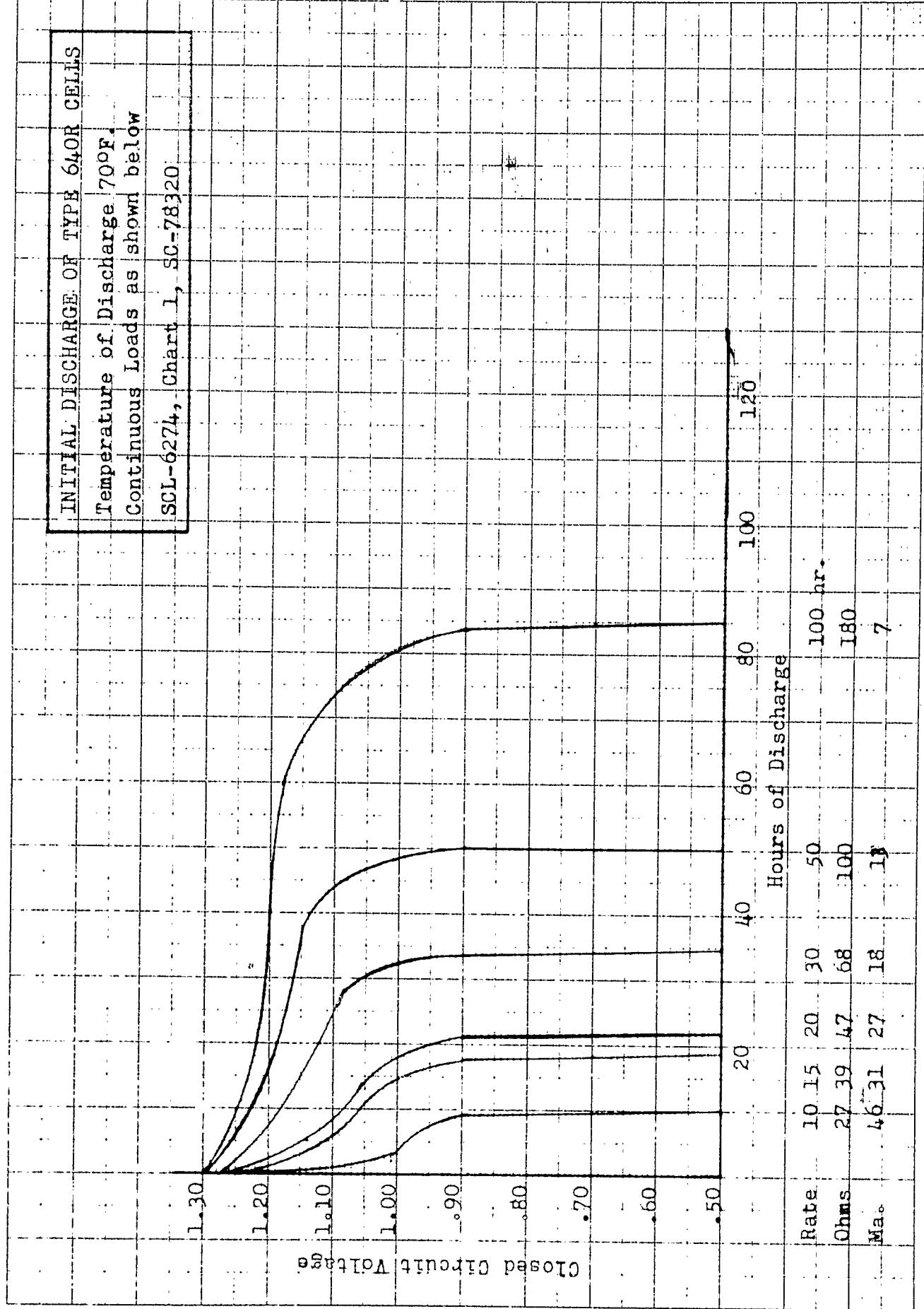


INITIAL DISCHARGE OF TYPE 640R CELLS

Temperature of Discharge 70°F.

Continuous Loads as shown below

SCL-6274, Chart 1, SC-78320

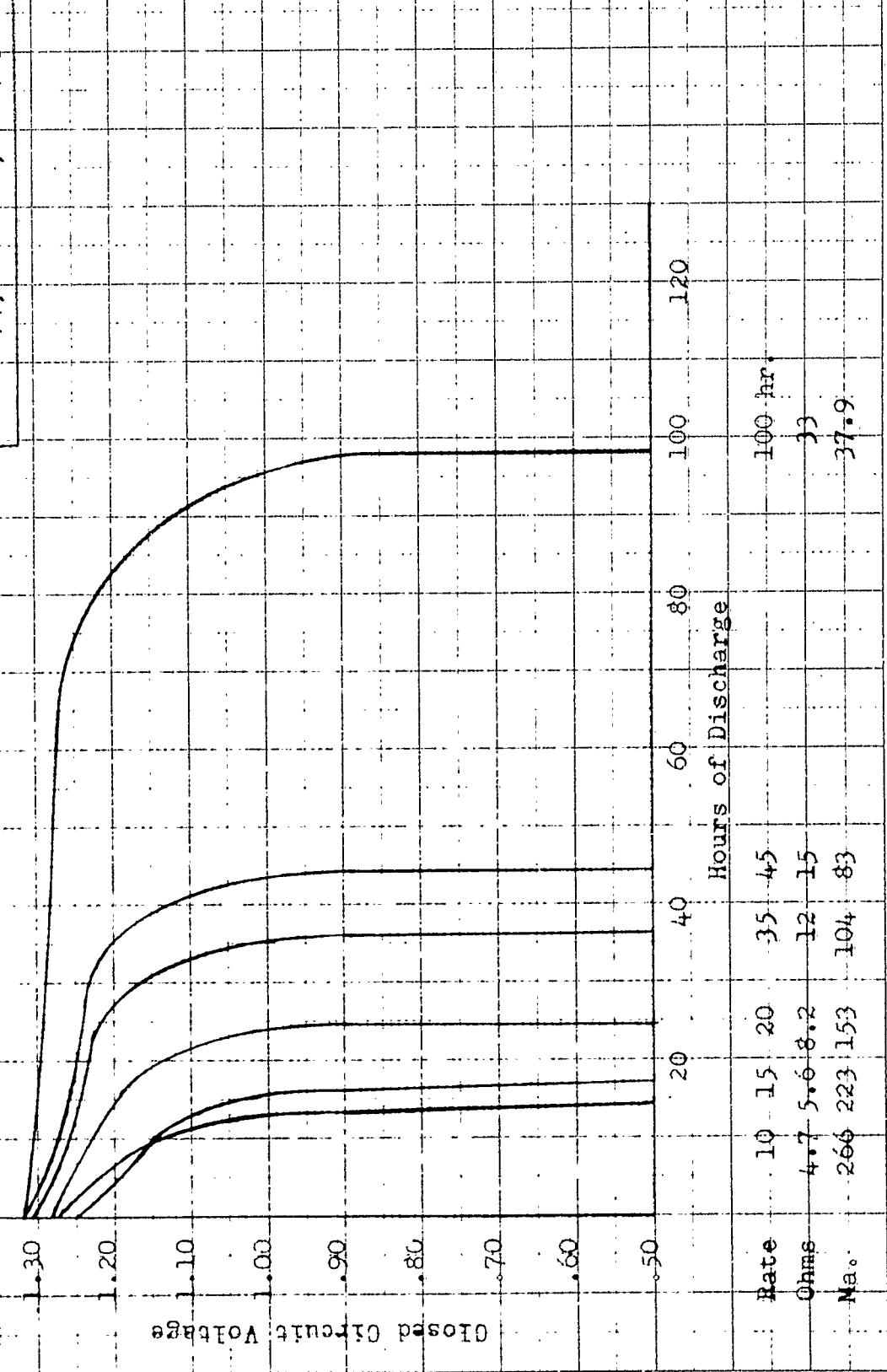


INITIAL DISCHARGE OF TYPE 12R CELLS

Temperature of Discharge 115° F.

Continuous Loads as shown below

SCL-6274, Chart 1, SG-78320

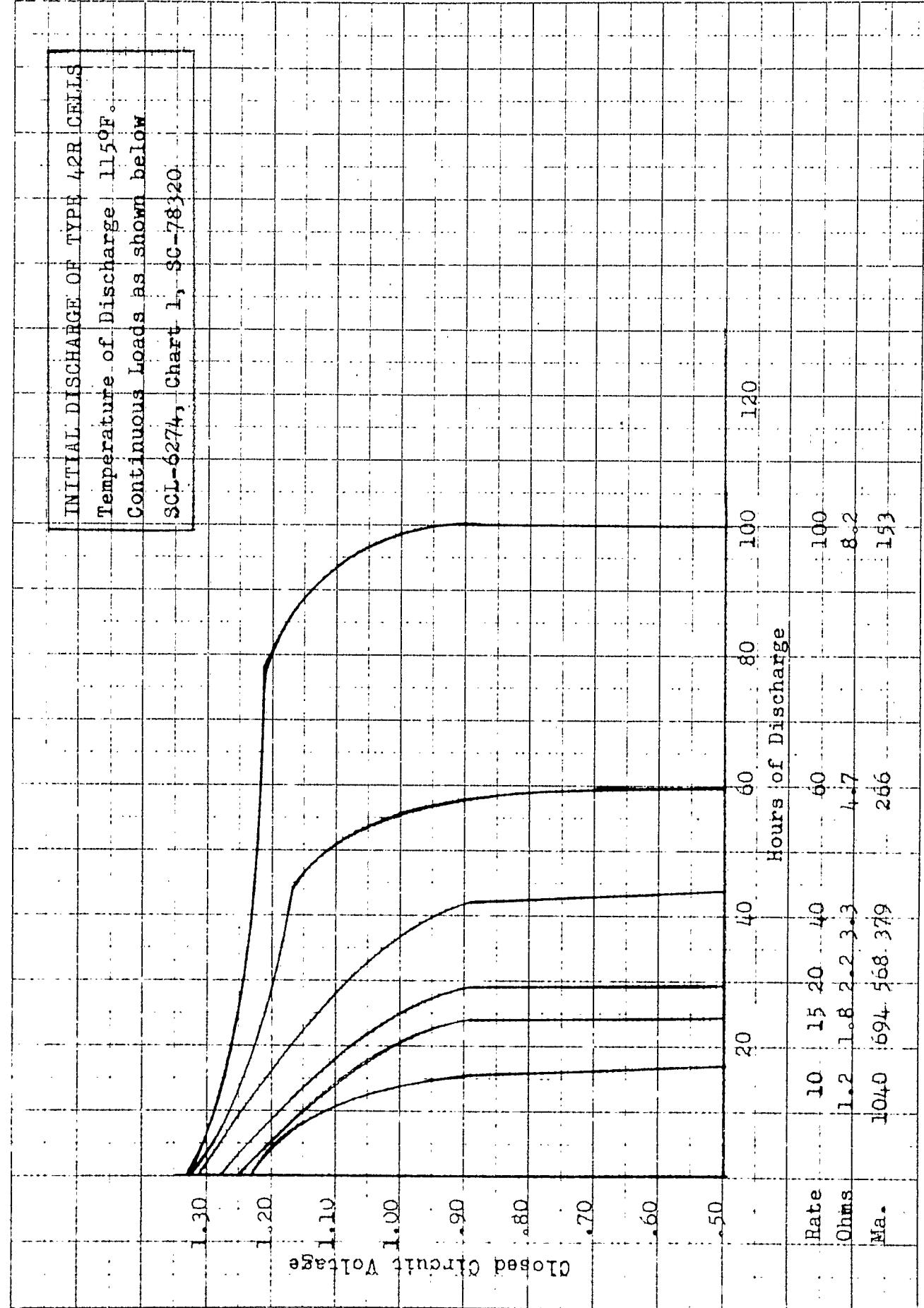


INITIAL DISCHARGE OF TYPE 42R CELLS

Temperature of Discharge 115°F.

Continuous Loads as shown below

SCL-6274, Chart 1, SC-78320

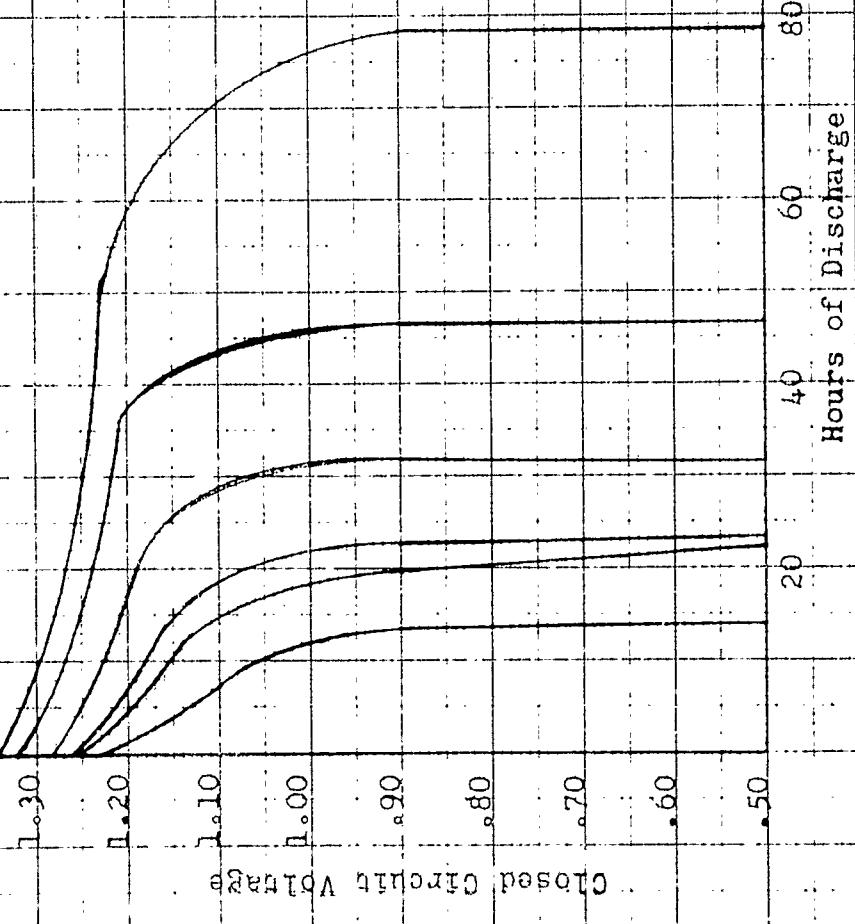


INITIAL DISCHARGE OF TYPE 640R CELLS

Temperature of Discharge 115°F.

Continuous Loads as shown below

SCL-6274, Chart 1, SC-78320



Rate	10	15	20	30	50	100hr.
Ohms	27	39	47	68	100	180
Ma.	46	31	27	18	13	7

APPENDIX III

Test Number	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
373	12R	160	Initial	Chart 1	
374	12R	160	Initial	Chart 1	
375	12R	20	Initial	Chart 1	
376	12R	20	Initial	Chart 1	
377	12R	70	Initial	Chart 1	
378	12R	70	Initial	Chart 1	
379	12R	115	Initial	Chart 1	
380	12R	115	Initial	Chart 1	
381	12R	55	Initial	Chart 1	
382	12R	70	Initial	Chart 1	
383	12R	70	Initial	Chart 1	
384	12R	70	Initial	Chart 1	
385	12R	70	6 Mo.	Chart 5 (4)	
386	12R	70	6 Mo.	Chart 5 (4)	
387	12R	70	6 Mo.	Chart 5 (4)	

(4) Cyclic Storage 0° ~ 130°F

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	33 79.2	33 72.6	33 70.0	33 93.7	33 97.5	33 93.7	373
ohms Hrs to 0.9V	33 95.7	33 47.0	33 86.1	33 99.0	33 95.8	33 101.7	374
ohms Hrs to 0.9V	33 7.5	33 7.2	33 15.0	33 6.45	33 4.3	33 6.5	375
ohms Hrs to 0.9V	33 7.7	33 12.0	33 9.5	33 7.7	33 8.7	33 8.7	376
ohms Hrs to 0.9V	3.3 0.35	3.3 5.70	3.3 5.90	3.3 6.00	3.3 6.50	3.3 5.90	377
ohms Hrs to 0.9V	2.7 0.45	2.7 2.65	2.7 3.25	2.7 0.20	2.7 1.45	2.7 1.75	378
ohms Hrs to 0.9V	5.6 15.4	5.6 15.9	5.6 17.2	5.6 16.7	5.6 16.8	5.6 16.8	379
ohms Hrs to 0.9V	5.6 16.3	5.6 16.4	5.6 15.4	5.6 16.5	5.6 16.8	5.6 16.5	380
ohms Hrs to 0.9V	5.6 2.4	5.6 1.85	5.6 1.95	5.6 0.50	5.6 0.85	5.6 2.6	381
ohms Hrs to 0.9V	2.7 1.40	2.7 2.60	2.7 2.15	2.7 1.30	2.7 3.50	2.7 4.15	382
ohms Hrs to 0.9V	3.3 6.20	3.3 7.10	3.3 6.60	3.3 7.40	3.3 7.10	3.3 7.10	383
ohms Hrs to 0.9V	3.9 3.2	3.9 2.3	3.9 7.9	3.9 9.5	3.9 8.9	3.9 8.65	384
ohms Hrs to 0.9V	4.7 0.30	4.7 0.20	4.7 9.55	4.7 9.55	4.7 9.95	4.7 0.30	385
ohms Hrs to 0.9V	4.7 9.25	4.7 10.5	4.7 9.0	4.7 9.2	4.7 10.0	4.7 10.3	386
ohms Hrs to 0.9V	4.7 0.45	4.7 0.50	4.7 0.25	4.7 0.30	4.7 0.30	4.7 10.30	387

APPENDIX III

Test Number	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
388	12R	70	6 Mo.	Chart 5	(4)
389	12R	115	Initial	Chart 1	
390	12R	115	Initial	Chart 1	
391	12R	200	Initial	Chart 1	
392	12R	200	Initial	Chart 1	
393	12R	-20	Initial	Chart 1	
394	12R	-20	Initial	Chart 1	
395	12R	160	Initial	Chart 1	
396	12R	160	Initial	Chart 1	
397	12R	20	Initial	Chart 1	
398	12R	20	Initial	Chart 1	
399	12R	115	Initial	Chart 1	Nos. 1 & 4 cell tests defective
400	12R	115	Initial	Chart 1	
401	42R	-20	Initial	Chart 1	
402	42R	-20	Initial	Chart 1	

(4) Cyclic Storage 0° to 130°F

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	4.7 8.3	4.7 9.0	4.7 0.3	4.7 10.05	4.7 9.55	4.7 0.45	388
ohms Hrs to 0.9V	2.7 7.7	2.7 7.0	2.7 7.3	2.7 7.8	2.7 7.7	2.7 8.25	389
ohms Hrs to 0.9V	2.7 7.7	2.7 7.9	2.7 8.2	2.7 7.65	2.7 7.85	2.7 8.05	390
ohms Hrs to 0.9V	33 73.7	33 62.8	33 75.8	33 64.7	33 69.7	33 65.5	391
ohms Hrs to 0.9V	33 79.9	33 66.9	33 59.7	33 48.3	33 70.5	33 61.6	392
ohms Hrs to 0.9V	33 0.9	33 0.75	33 1.15	33 0.95	33 0.9	33 0.9	393
ohms Hrs to 0.9V	33 0.75	33 0.95	33 0.9	33 0.9	33 0.75	33 0.95	394
ohms Hrs to 0.9V	2.7 7.7	2.7 7.5	2.7 7.65	2.7 7.8	2.7 8.0	2.7 8.0	395
ohms Hrs to 0.9V	2.7 7.15	2.7 8.1	2.7 7.8	2.7 7.8	2.7 8.4	2.7 7.9	396
ohms Hrs to 0.9V	4.7 0.15	4.7 0.20	4.7 0.15	4.7 0.25	4.7 0.15	4.7 0.20	397
ohms Hrs to 0.9V	4.7 0.15	4.7 0.20	4.7 0.15	4.7 0.25	4.7 0.15	4.7 0.20	398
ohms Hrs to 0.9V	4.7 14.0	4.7 14.3	4.7 14.35	4.7 13.5	4.7 13	4.7 13.2	399
ohms Hrs to 0.9V	4.7 14.0	4.7 14.3	4.7 15.0	4.7 13.5	7 3	4.7 13.1	400
ohms Hrs to 0.9V	8.2 0.45	8.2 0.40	8.2 0.40	8.2 0.45	2 40	8.2 0.45	401
ohms Hrs to 0.9V	8.2 0.25	8.2 0.30	8.2 0.45	8.2 0.40	2 35	8.2 0.35	402

APPENDIX I III

Test Number	Cell Type	Temp. °F	Storage	SCL-6274 Reference	Notes
403	42R	115	Initial	Chart 1	
404	42R	115	Initial	Chart 1	No. 6 cell test defective
405	12R	40	Initial	Chart 1	No. 6 cell test defective
406	12R	40	Initial	Chart 1	No. 6 cell test defective
407	12R	115	Initial	Chart 1	
408	12R	115	Initial	Chart 1	
409	12R	160	Initial	Chart 1	
410	12R	160	Initial	Chart 1	
411	12R	200	Initial	Chart 1	
412	12R	200	Initial	Chart 1	
413	12R	40	Initial	Chart 1	
414	12R	40	Initial	Chart 1	
415	12R	40	Initial	Chart 1	
416	12R	40	Initial	Chart 1	
417	42R	115	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	1.2 14.55	1.2 15.10	1.2 14.70	1.2 15.10	1.2 15.10	1.2 15.2	403
ohms Hrs to 0.9V	1.2 15.0	1.2 15.3	1.2 15.1	1.2 16.0	1.2 15.2	1.2 -	404
ohms Hrs to 0.9V	5.6 0.65	5.6 0.45	5.6 0.40	5.6 0.25	5.6 0.10	5.6 -	405
ohms Hrs to 0.9V	5.6 0.30	5.6 0.10	5.6 0.10	5.6 0.05	5.6 0.25	5.6 -	406
ohms Hrs to 0.9V	3.3 9.40	3.3 9.65	3.3 9.90	3.3 9.75	3.3 9.85	3.3 9.15	407
ohms Hrs to 0.9V	3.3 8.7	3.3 9.7	3.3 9.45	3.3 9.65	3.3 8.95	3.3 10.15	408
ohms Hrs to 0.9V	3.3 9.60	3.3 9.50	3.3 9.75	3.3 9.35	3.3 10.05	3.3 9.85	409
ohms Hrs to 0.9V	3.3 9.40	3.3 9.60	3.3 9.50	3.3 9.55	3.3 10.15	3.3 9.75	410
ohms Hrs to 0.9V	2.2 0.95	2.2 3.4	2.2 3.55	2.2 4.35	2.2 3.9	2.2 4.05	411
ohms Hrs to 0.9V	2.2 1.8	2.2 3.45	2.2 1.05	2.2 4.30	2.2 3.15	2.2 0.85	412
ohms Hrs to 0.9V	2.7 0.05	2.7 0.05	2.7 0.05	2.7 0.05	2.7 0.05	2.7 0.05	413
ohms Hrs to 0.9V	2.7 0.05	2.7 0.05	2.7 0.05	2.7 0.05	2.7 0.05	2.7 0.05	414
ohms Hrs to 0.9V	4.7 0.55	4.7 0.40	4.7 0.55	4.7 0.30	4.7 0.15	4.7 0.05	415
ohms Hrs to 0.9V	4.7 0.35	4.7 0.30	4.7 0.40	4.7 0.45	4.7 0.50	4.7 0.75	416
ohms Hrs to 0.9V	2.2 28.95	2.2 28.05	2.2 28.85	2.2 28.90	2.2 27.75	2.2 27.40	417

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
418	42R	115	Initial	Chart 1	No. 6 cell test defective
419	42R	160	Initial	Chart 1	No. 6 cell test defective
420	42R	160	Initial	Chart 1	No. 5&6 cell tests defective
421	42R	200	Initial	Chart 1	No. 2 cell test defective
422	42R	200	Initial	Chart 1	
423	42R	40	Initial	Chart 1	
424	42R	40	Initial	Chart 1	
425	42R	20	Initial	Chart 1	
426	42R	20	Initial	Chart 1	
427	12R	160	Initial	Chart 1	
428	12R	160	Initial	Chart 1	
429	12R	200	Initial	Chart 1	
430	12R	200	Initial	Chart 1	
431	42R	70	Initial	Chart 1	
432	42R	70	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	2.2 28.1	2.2 28.8	2.2 27.9	2.2 28.4	2.2 28.8	2.2 -	418
ohms Hrs to 0.9V	2.2 28.2	2.2 28.4	2.2 28.2	2.2 27.9	2.2 28.0	2.2 -	419
ohms Hrs to 0.9V	2.2 29.3	2.2 27.4	2.2 27.6	2.2 29.0	2.2 -	2.2 -	420
ohms Hrs to 0.9V	2.2 25.8	2.2 -	2.2 26.6	2.2 15.9	2.2 25.6	2.2 22.2	421
ohms Hrs to 0.9V	2.2 25.9	2.2 16.7	2.2 19.1	2.2 26.5	2.2 20.2	2.2 22.0	422
ohms Hrs to 0.9V	1.2 0.10	1.2 0.15	1.2 0.10	1.2 0.10	1.2 0.20	1.2 0.10	423
ohms Hrs to 0.9V	1.2 0.10	1.2 0.10	1.2 0.15	1.2 0.10	1.2 0.10	1.2 0.15	424
ohms Hrs to 0.9V	1.2 0.10	1.2 0.10	1.2 0.10	1.2 0.15	1.2 0.10	1.2 0.10	425
ohms Hrs to 0.9V	1.2 0.10	1.2 0.10	1.2 0.10	1.2 0.15	1.2 0.10	1.2 0.15	426
ohms Hrs to 0.9V	4.7 12.6	4.7 3.1	4.7 12.4	4.7 12.9	4.7 13.0	4.7 12.4	427
ohms Hrs to 0.9V	4.7 12.0	4.7 12.6	4.7 13.0	4.7 12.1	4.7 12.9	4.7 12.9	428
ohms Hrs to 0.9V	4.7 4.9	4.7 4.1	4.7 2.4	4.7 3.3	4.7 3.8	4.7 4.2	429
ohms Hrs to 0.9V	4.7 3.8	4.7 3.9	4.7 2.9	4.7 3.1	4.7 2.9	4.7 4.5	430
ohms Hrs to 0.9V	2.2 23.6	2.2 24.3	2.2 24.9	2.2 25.4	2.2 24.0	2.2 22.4	431
ohms Hrs to 0.9V	2.0 21.0	2.0 21.1	2.0 20.0	2.0 19.8	2.0 20.5	2.0 19.6	432

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
433	42R	40	Initial	Chart 1	
434	42R	40	Initial	Chart 1	
435	42R	40	Initial	Chart 1	
436	42R	40	Initial	Chart 1	
437	42R	20	Initial	Chart 1	Cell test No. 3 defective
438	42R	20	Initial	Chart 1	Cell test No. 1 defective
439	42R	160	Initial	Chart 1	
440	42R	160	Initial	Chart 1	3 cells
441	42R	115	Initial	Chart 1	No. 2 Cell test defective 3 cells
442	42R	115	Initial	Chart 1	
443	42R	115	Initial	Chart 1	
444	12R	40	Initial	Chart 1	
445	12R	40	Initial	Chart 1	
446	42R	70	Initial	Chart 1	
447	42R	70	Initial	Chart 1	No. 3 cell test defective 3 cells

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	1.8 0.15	1.8 0.15	1.8 0.15	1.8 0.15	1.8 0.20	1.8 0.10	433
ohms Hrs to 0.9V	1.8 0.10	1.8 0.15	1.8 0.15	1.8 0.10	1.8 0.15	1.8 0.10	434
ohms Hrs to 0.9V	8.2 65.4	8.2 66.1	8.2 57.9	8.2 62.1	8.2 57.9	8.2 55.1	435
ohms Hrs to 0.9V	8.2 50.1	8.2 48.3	8.2 50.1	8.2 59.0	8.2 49.6	8.2 56.2	436
ohms Hrs to 0.9V	8.2 2.40	8.2 3.60	8.2 -	8.2 4.80	8.2 5.40	8.2 6.50	437
ohms Hrs to 0.9V	8.2 -	8.2 3.40	8.2 2.25	8.2 4.40	8.2 4.65	8.2 4.20	438
ohms Hrs to 0.9V	8.2 90.6	8.2 92.3	8.2 92.0	8.2 92.1	8.2 91.7	8.2 91.3	439
ohms Hrs to 0.9V	2.2 30.8	2.2 28.9	2.2 26.8				440
ohms Hrs to 0.9V	2.2 29.3	2.2 -	2.2 28.4				441
ohms Hrs to 0.9V	1.8 22.4	1.8 24.5	1.8 22.9	1.8 22.5	1.8 23.4	1.8 23.1	442
ohms Hrs to 0.9V	1.8 23.0	1.8 24.1	1.8 23.4	1.8 24.0	1.8 24.0	1.8 24.5	443
ohms Hrs to 0.9V	3.3 0.10	3.3 0.15	3.3 0.10	3.3 0.10	3.3 0.15	3.3 0.10	444
ohms Hrs to 0.9V	3.3 0.10	3.3 0.15	3.3 0.10	3.3 0.20	3.3 0.15	3.3 0.10	445
ohms Hrs to 0.9V	2.2 22.1	2.2 25.5	2.2 25.3	2.2 27.5	2.2 25.3	2.2 26.2	446
ohms Hrs to 0.9V	2.2 24.4	2.2 24.7	2.2 -				447

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
448	42R	20	Initial	Chart 1	3 cells
449	42R	40	Initial	Chart 1	3 cells
450	42R	115	Initial	Chart 1	3 cells
451	42R	160	Initial	Chart 1	
452	42R	115	Initial	Chart 1	
453	42R	115	Initial	Chart 1	
454	42R	160	Initial	Chart 1	
455	42R	160	Initial	Chart 1	
456	42R	200	Initial	Chart 1	
457	42R	200	Initial	Chart 1	No. 2 cell test defective
458	12R	115	Initial	Chart 1	3 cells
459	12R	160	Initial	Chart 1	3 cells
460	42R	200	Initial	Chart 1	
461	42R	200	Initial	Chart 1	
462	42R	160	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	1.2 0.10	1.2 0.10	1.2 0.10				448
ohms Hrs to 0.9V	1.2 0.05	1.2 0.10	1.2 0.10				449
ohms Hrs to 0.9V	1.2 16.1	1.2 19.5	1.2 15.5				450
ohms Hrs to 0.9V	1.2 16.4	1.2 16.5	1.2 16.5	1.2 15.9	1.2 16.5	1.2 15.1	451
ohms Hrs to 0.9V	8.2 95.5	8.2 99.0	8.2 99.2	8.2 98.8	8.2 97.0	8.2 97.5	452
ohms Hrs to 0.9V	8.2 102.9	8.2 104.5	8.2 101.8	8.2 99.0	8.2 101.2	8.2 100.8	453
ohms Hrs to 0.9V	8.2 93.4	8.2 96.1	8.2 93.2	8.2 96.6	8.2 89.2	8.2 97.6	454
ohms Hrs to 0.9V	8.2 96.2	8.2 97.5	8.2 95.4	8.2 92.9	8.2 95.5	8.2 87.1	455
ohms Hrs to 0.9V	8.2 89.0	8.2 83.4	8.2 88.4	8.2 87.7	8.2 86.8	8.2 93.4	456
ohms Hrs to 0.9V	8.2 91.5	8.2 -	8.2 94.4	8.2 89.1	8.2 89.2	8.2 88.7	457
ohms Hrs to 0.9V	33 95.8	33 96.7	33 96.2				458
ohms Hrs to 0.9V	33 75.5	33 98.3	33 98.0				459
ohms Hrs to 0.9V	1.2 13.3	1.2 12.2	1.2 11.5	1.2 14.1	1.2 14.2	1.2 14.1	460
ohms Hrs to 0.9V	1.2 14.3	1.2 14.4	1.2 14.0	1.2 12.7	1.2 14.2	1.2 13.2	461
ohms Hrs to 0.9V	1.2 15.6	1.2 15.4	1.2 15.1	1.2 16.1	1.2 17.0	1.2 15.8	462

APPENDIX III

Test No.	Cell Type	Temp., °F.	Storage	SCL-627b Reference	Notes
463	42R	160	Initial	Chart 1	3 cells
464	42R	20	Initial	Chart 1	3 cells
465	42R	40	Initial	Chart 1	3 cells
466	42R	115	Initial	Chart 1	3 cells
467	42R	160	Initial	Chart 1	
468	42R	160	Initial	Chart 1	
469	42R	160	Initial	Chart 1	3 cells
470	42R	40	Initial	Chart 1	
471	42R	40	Initial	Chart 1	
472	42R	40	Initial	Chart 1	3 cells
473	42R	40	Initial	Chart 1	3 cells
474	42R	20	Initial	Chart 1	3 cells
475	42R	115	Initial	Chart 1	3 cells
476	640R	70	Initial	Chart 1	
477	42R	160	Initial	Chart 1	3 cells

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	1.2 15.4	1.2 15.6	1.2 15.6				463
ohms Hrs to 0.9V	1.8 0.15	1.8 0.15	1.8 0.15				464
ohms Hrs to 0.9V	1.8 0.15	1.8 0.10	1.8 0.10				465
ohms Hrs to 0.9V	1.8 23.2	1.8 24.2	1.8 24.5				466
ohms Hrs to 0.9V	1.8 22.3	1.8 22.8	1.8 24.4	1.8 23.6	1.8 23.5	1.8 22.7	467
ohms Hrs to 0.9V	1.8 24.7	1.8 23.4	1.8 23.5	1.8 22.8	1.8 23.6	1.8 23.5	468
ohms Hrs to 0.9V	1.8 23.1	1.8 23.6	1.8 23.0				469
ohms Hrs to 0.9V	2.2 0.60	2.2 0.95	2.2 0.15	2.2 0.20	2.2 0.50	2.2 0.30	470
ohms Hrs to 0.9V	2.2 0.75	2.2 2.95	2.2 0.50	2.2 12.40	2.2 2.65	2.2 4.00	471
ohms Hrs to 0.9V	2.2 0.30	2.2 2.40	2.2 0.30				472
ohms Hrs to 0.9V	8.2 57.7	8.2 60.4	8.2 51.5				473
ohms Hrs to 0.9V	8.2 4.15	8.2 3.40	8.2 6.70				474
ohms Hrs to 0.9V	8.2 96.5	8.2 98.8	8.2 97.2				475
ohms Hrs to 0.9V	100 51.7	100 55.8	100 54.1	100 53.5	100 55.1	100 54.1	476
ohms Hrs to 0.9V	8.2 96.5	8.2 93.7	8.2 97.4				477

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
478	42R	200	Initial	Chart 1	3 Cells
479	12R	70	Initial	Chart 1	
480	12R	20	Initial	Chart 1	3 Cells
481	12R	40	Initial	Chart 1	3 Cells
482	12R	115	Initial	Chart 1	3 Cells
483	12R	160	Initial	Chart 1	3 Cells
484	12R	200	Initial	Chart 1	3 Cells
485	640R	70	Initial	Chart 1	
486	640R	70	Initial	Chart 1	Cell Tests Nos. 4 & 6 defective
487	640R	70	Initial	Chart 1	
488	42R	70	Initial	Chart 1	3 Cells
489	42R	70	Initial	Chart 1	
490	42R	70	Initial	Chart 1	
491	42R	70	Initial	Chart 1	
492	42R	70	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	8.2 94.7	8.2 72.0	8.2 93.6				478
ohms Hrs to 0.9V	2.5 0.30	2.5 0.70	2.5 0.65	2.5 0.25	2.5 0.15	2.5 0.25	479
ohms Hrs to 0.9V	4.7 0.30	4.7 0.30	4.7 0.15				480
ohms Hrs to 0.9V	4.7 0.05	4.7 0.10	4.7 0.05				481
ohms Hrs to 0.9V	4.7 14.0	4.7 11.5	4.7 13.3				482
ohms Hrs to 0.9V	4.7 3.1	4.7 13.1	4.7 13.5				483
ohms Hrs to 0.9V	4.7 3.1	4.7 3.0	4.7 3.0				484
ohms Hrs to 0.9V	18 0.80	18 0.40	18 0.70	18 0.75	18 0.30	18 0.75	485
ohms Hrs to 0.9V	22 5.70	22 1.90	22 3.90	22 -	22 3.70	22 -	486
ohms Hrs to 0.9V	27 8.8	27 8.5	27 6.5	27 9.5	27 8.0	27 8.2	487
ohms Hrs to 0.9V	1.0 5.5	1.0 9.0	1.0 7.2				488
ohms Hrs to 0.9V	0.9 5.3	0.9 6.3	0.9 7.0	0.9 7.6	0.9 7.0	0.9 7.6	489
ohms Hrs to 0.9V	0.75 4.1	0.75 4.2	0.75 5.1	0.75 6.1	0.75 5.2	0.75 4.5	490
ohms Hrs to 0.9V	0.5 0.10	0.5 0.10	0.5 0.10	0.5 0.10	0.5 0.10	0.5 0.10	491
ohms Hrs to 0.9V	0.6 0.20	0.6 0.25	0.6 0.20	0.6 0.20	0.6 0.20	0.6 0.20	492

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
493	42R	70	Initial	Chart 1	
494	42R	70	Initial	Chart 1	
495	640R	70	Initial	Chart 1	
496	640R	70	Initial	Chart 1	Cell Test No. 2 defective
497	12R	115	Initial	Chart 1	3 Cells
498	12R	160	Initial	Chart 1	
499	12R	160	Initial	Chart 1	3 Cells
500	12R	70	Initial	Chart 1	(2)
501	640R	70	Initial	Chart 1	(2)
502	640R	70	Initial	Chart 1	
503	640R	70	Initial	Chart 1	
504	640R	70	Initial	Chart 1	
505	12R	70	Initial	Chart 1	
506	12R	70	Initial	Chart 1	3 Cells
507	12R	200	Initial	Chart 1	

(2) Preliminary test

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	0.75 4.4	0.75 3.8	0.75 4.5	0.75 5.8	0.75 5.4	0.75 5.0	493
ohms Hrs to 0.9V	0.65 0.25	0.65 0.20	0.65 0.25	0.65 0.20	0.65 0.25	0.65 0.20	494
ohms Hrs to 0.9V	27 9.3	27 9.3	27 12.8	27 11.0	27 11.0	27 6.6	495
ohms Hrs to 0.9V	22 1.05	22 -	22 6.5	22 3.8	22 6.5	22 6.0	496
ohms Hrs to 0.9V	5.6 16.5	5.6 15.7	5.6 15.4				497
ohms Hrs to 0.9V	5.6 16.7	5.6 5.0	5.6 17.1	5.6 16.5	5.6 16.9	5.6 14.2	498
ohms Hrs to 0.9V	5.6 16.4	5.6 16.5	5.6 17.4				499
ohms Hrs to 0.9V	2.6 3.3	2.6 3.4	2.6 0.50	2.6 2.30	2.6 2.10	2.6 0.30	500
ohms Hrs to 0.9V	39 17.3	39 18.7	39 19.0	39 17.4	39 19.4	39 15.2	501
ohms Hrs to 0.9V	47 19.1	47 21.2	47 21.5	47 22.7	47 20.9	47 22.7	502
ohms Hrs to 0.9V	150 73.1	150 71.4	150 73.1	150 71.6	150 70.5	150 68.7	503
ohms Hrs to 0.9V	180 81.7	180 85.1	180 85.1	180 84.4	180 95.2	180 85.0	504
ohms Hrs to 0.9V	8.2 23.2	8.2 24.2	8.2 23.4	8.2 22.5	8.2 23.8	8.2 23.3	505
ohms Hrs to 0.9V	3.3 5.9	3.3 5.4	3.3 6.1				506
ohms Hrs to 0.9V	5.6 5.1	5.6 5.9	5.6 5.5	5.6 4.1	5.6 5.1	5.6 5.3	507

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
508	12R	200	Initial	Chart 1	3 Cells
509	12R	160	Initial	Chart 1	3 Cells
510	12R	20	Initial	Chart 1	3 Cells
511	12R	40	Initial	Chart 1	
512	12R	40	Initial	Chart 1	
513	12R	70	Initial	Chart 1	3 Cells
514	12R	70	Initial	Chart 1	3 Cells
515	12R	160	Initial	Chart 1	3 Cells
516	12R	115	Initial	Chart 1	3 Cells
517	12R	115	Initial	Chart 1	
518	12R	115	Initial	Chart 1	
519	12R	200	Initial	Chart 1	
520	12R	200	Initial	Chart 1	3 Cells
521	12R	200	Initial	Chart 1	
522	12R	200	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	8.2 8.5	8.2 10.3	8.2 8.8				508
ohms Hrs to 0.9V	8.2 6.8	8.2 8.1	8.2 7.3				509
ohms Hrs to 0.9V	33 10.8	33 8.4	33 11.2				510
ohms Hrs to 0.9V	2.2 0.10	2.2 0.10	2.2 0.15	2.2 0.05	2.2 0.10	2.2 0.10	511
ohms Hrs to 0.9V	2.2 0.10	2.2 0.15	2.2 0.10	2.2 0.05	2.2 0.10	2.2 0.10	512
ohms Hrs to 0.9V	2.2 4.5	2.2 1.9	2.2 0.50				513
ohms Hrs to 0.9V	2.7 1.05	2.7 0.10	2.7 3.30				514
ohms Hrs to 0.9V	3.3 9.25	3.3 9.50	3.3 9.50				515
ohms Hrs to 0.9V	3.3 10.9	3.3 9.8	3.3 9.1				516
ohms Hrs to 0.9V	2.2 5.8	2.2 6.9	2.2 6.3	2.2 7.9	2.2 6.7	2.2 5.8	517
ohms Hrs to 0.9V	2.2 5.9	2.2 6.0	2.2 6.8	2.2 5.8	2.2 5.9	2.2 6.1	518
ohms Hrs to 0.9V	5.6 7.8	5.6 5.8	5.6 4.2	5.6 5.6	5.6 7.6	5.6 5.8	519
ohms Hrs to 0.9V	5.6 5.6	5.6 5.5	5.6 5.3				520
ohms Hrs to 0.9V	2.7 7.3	2.7 1.5	2.7 1.00	2.7 0.80	2.7 1.00	2.7 4.80	521
ohms Hrs to 0.9V	2.7 8.8	2.7 8.0	2.7 9.0	2.7 5.4	2.7 5.0	2.7 5.6	522

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
523	12R	200	Initial	Chart 1	
524	12R	200	Initial	Chart 1	No. 4 cell test defective
525	12R	70	Initial	Chart 1	3 cells
526	12R	20	Initial	Chart 1	
527	12R	20	Initial	Chart 1	
528	42R	70	Initial	Chart 1	(2) All less than 0.10 hr.
529	64OR	70	Initial	Chart 1	
530	64OR	70	Initial	Chart 1	3 cells
531	64OR	70	1 Mo. (4)	Chart 5	
532	64OR	70	1 Mo. (4)	Chart 5	
533	64OR	70	1 Mo. (4)	Chart 5	
534	64OR	70	1 Mo. (4)	Chart 5	
535	12R	160	1 Mo. @ 160°F	Chart 2	
536	12R	160	1 Mo. @ 160°F	Chart 2	
537	12R	160	1 Mo. @ 160°F	Chart 2	No. 5&6 cell tests defective

(4) Cyclic storage 0° to 130°F. (2) Preliminary Test

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	3.3 6.2	3.3 1.8	3.3 2.0	3.3 2.1	3.3 2.4	3.3 2.6	523
ohms Hrs to 0.9V	3.3 7.7	3.3 1.6	3.3 2.2	3.3 2.3	3.3 2.9	3.3 6.5	524
ohms Hrs to 0.9V	3.3 4.75	3.3 4.65	3.3 5.5				525
ohms Hrs to 0.9V	8.2 0.15	8.2 0.20	8.2 0.15	8.2 0.20	8.2 0.20	8.2 0.20	526
ohms Hrs to 0.9V	8.2 0.25	8.2 0.15	8.2 0.20	8.2 0.25	8.2 0.20	8.2 0.20	527
ohms Hrs to 0.9V	0.50	0.50	0.50	0.50	0.50	0.50	528
ohms Hrs to 0.9V	180 78.8	180 87.6	180 82.4	180 83.9	180 88.1	180 79.7	529
ohms Hrs to 0.9V	180 83.3	180 86.8	180 82.8				530
ohms Hrs to 0.9V	27 7.5	27 7.9	27 8.4	27 8.0	27 1.4	27 7.9	531
ohms Hrs to 0.9V	27 8.2	27 8.3	27 7.1	27 7.4	27 7.5	27 8.3	532
ohms Hrs to 0.9V	27 6.8	27 1.4	27 7.2	27 5.9	27 8.4	27 5.6	533
ohms Hrs to 0.9V	27 1.8	27 7.4	27 1.4	27 6.2	27 8.2	27 1.4	534
ohms Hrs to 0.9V	4.7 15.1	4.7 1.6	4.7 1.3	4.7 1.4	4.7 1.3	4.7 1.4	535
ohms Hrs to 0.9V	4.7 11.6	4.7 14.2	4.7 13.5	4.7 13.6	4.7 1.4	4.7 1.8	536
ohms Hrs to 0.9V	4.7 1.4	4.7 1.4	4.7 1.4	4.7 13.5	4.7	4.7	537

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
538	12R	160	1 Mo. @ 160°F	Chart 2	
539	12R	-20	1 Mo. @ 160°F	Chart 2	
540	12R	-20	1 Mo. @ 160°F	Chart 2	
541	12R	115	1 Mo. @ 160°F	Chart 2	
542	12R	115	1 Mo. @ 160°F	Chart 2	
543	12R	115	1 Mo. @ 160°F	Chart 2	
544	12R	115	1 Mo. @ 160°F	Chart 2	
545	12R	115	Initial	Chart 1	3 cells
546	12R	115	Initial	Chart 1	3 cells
547	12R	40	Initial	Chart 1	3 cells
548	12R	40	Initial	Chart 1	3 cells
549	12R	160	Initial	Chart 1	
550	12R	160	Initial	Chart 1	
551	12R	160	Initial	Chart 1	3 cells
552	12R	160	Initial	Chart 1	3 cells

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	4.7 12.1	4.7 1.7	4.7 3.6	4.7 14.9	4.7 12.3	4.7 13.6	538
ohms Hrs to 0.9V	33 1.2	33 1.3	33 1.0	33 1.3	33 1.1	33 1.4	539
ohms Hrs to 0.9V	33 1.6	33 1.7	33 1.9	33 2.0	33 1.9	33 1.7	540
ohms Hrs to 0.9V	4.7 14.4	4.7 14.1	4.7 14.0	4.7 14.7	4.7 14.6	4.7 14.2	541
ohms Hrs to 0.9V	4.7 15.3	4.7 14.2	4.7 13.7	4.7 14.4	4.7 14.7	4.7 14.2	542
ohms Hrs to 0.9V	4.7 14.5	4.7 14.0	4.7 13.8	4.7 14.5	4.7 14.1	4.7 13.4	543
ohms Hrs to 0.9V	4.7 13.4	4.7 14.1	4.7 14.6	4.7 13.9	4.7 14.4	4.7 13.7	544
ohms Hrs to 0.9V	2.2 6.7	2.2 6.3	2.2 6.9				545
ohms Hrs to 0.9V	2.7 11.0	2.7 7.6	2.7 7.7				546
ohms Hrs to 0.9V	2.2 0.05	2.2 0.05	2.2 0.05				547
ohms Hrs to 0.9V	27 0.15	27 0.05	27 0.05				548
ohms Hrs to 0.9V	2.2 6.5	2.2 6.0	2.2 5.4	2.2 6.6	2.2 5.8	2.2 5.8	549
ohms Hrs to 0.9V	2.2 6.4	2.2 6.4	2.2 6.2	2.2 6.0	2.2 6.6	2.2 6.3	550
ohms Hrs to 0.9V	2.2 6.5	2.2 5.8	2.2 8.0				551
ohms Hrs to 0.9V	2.7 7.8	2.7 7.7	2.7 7.7				552

APPENDIX III

Test No.	Cell Type	Temp. °F	Storage	SCL-6274 Reference	Notes
553	12R	-20	1 Mo. @ 160°F	Chart 2	
554	12R	-20	1 Mo. @ 160°F	Chart 2	
555	12R	200	Initial	Chart 1	3 cells
556	12R	200	Initial	Chart 1	3 cells
557	12R	40	1 Mo. @ 160°F	Chart 2	
558	12R	40	1 Mo. @ 160°F	Chart 2	
559	12R	200	1 Mo. @ 160°F	Chart 2	
560	12R	200	1 Mo. @ 160°F	Chart 2	
561	640R	115	Initial	Chart 1	3 cells
562	640R	115	Initial	Chart 1	
563	640R	160	Initial	Chart 1	
564	640R	160	Initial	Chart 1	3 cells
565	12R	20	Initial	Chart 1	3 cells
566	12R	40	Initial	Chart 1	3 cells
567	12R	40	Initial	Chart 1	3 cells

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	33 1.20	33 1.30	33 1.00	33 1.30	33 1.10	33 1.30	553
ohms Hrs to 0.9V	33 1.40	33 1.60	33 1.20	33 1.20	33 1.30	33 1.90	554
ohms Hrs to 0.9V	2.2 3.55	2.2 3.55	2.2 4.20				555
ohms Hrs to 0.9V	2.7 4.75	2.7 4.75	2.7 4.70				556
ohms Hrs to 0.9V	4.7 0.50	4.7 0.35	4.7 0.40	4.7 0.45	4.7 0.35	4.7 0.45	557
ohms Hrs to 0.9V	4.7 0.35	4.7 0.45	4.7 0.35	4.7 0.30	4.7 0.45	4.7 0.30	558
ohms Hrs to 0.9V	4.7 2.5	4.7 1.75	4.7 1.70	4.7 2.90	4.7 2.25	4.7 2.70	559
ohms Hrs to 0.9V	4.7 1.85	4.7 2.65	4.7 2.95	4.7 2.40	4.7 2.30	4.7 2.35	560
ohms Hrs to 0.9V	180 83.75	180 55.15	180 83.3				561
ohms Hrs to 0.9V	180 68.9	180 79.6	180 83.55	180 67.3	180 52.0	180 63.3	562
ohms Hrs to 0.9V	180 57.35	180 47.05	180 80.15	180 87.90	180 70.35	180 63.75	563
ohms Hrs to 0.9V	180 58.55	180 71.30	180 84.75				564
ohms Hrs to 0.9V	8.2 0.30	8.2 0.20	8.2 0.25				565
ohms Hrs to 0.9V	8.2 0.30	8.2 1.90	8.2 0.20				566
ohms Hrs to 0.9V	8.2 0.15	8.2 0.05	8.2 0.10				567

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
568	12R	40	Initial	Chart 1	3 cells
569	12R	115	Initial	Chart 1	3 cells
570	12R	200	Initial	Chart 1	3 cells
571	12R	200	Initial	Chart 1	3 cells
572	640R	70	Initial	Chart 1	
573	640R	70	Initial	Chart 1	3 cells
574	640R	70	Initial	Chart 1	Cell test no. 2 defective 3 cells
575	12R	20	Initial	Chart 1	
576	12R	20	Initial	Chart 1	
577	640R	115	Initial	Chart 1	
578	640R	115	Initial	Chart 1	
579	640R	115	Initial	Chart 1	
580	640R	115	Initial	Chart 1	
581	640R	160	Initial	Chart 1	
582	640R	160	Initial	Chart 1	No. 2 cell test Defective

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	5.6 0.90	5.6 0.25	5.6 0.90				568
ohms Hrs to 0.9V	5.6 16.6	5.6 16.65	5.6 18.20				569
ohms Hrs to 0.9V	3.3 7.4	3.3 1.75	3.3 7.45				570
ohms Hrs to 0.9V	33 64.15	33 80.20	33 89.60				571
ohms Hrs to 0.9V	18 1.10	18 0.60	18 1.00	18 4.00	18 1.70	18 1.20	572
ohms Hrs to 0.9V	18 4.8	18 0.60	18 2.1				573
ohms Hrs to 0.9V	22 5.65	22 -	22 6.5				574
ohms Hrs to 0.9V	1.8 0.10	1.8 0.15	1.8 0.15	1.8 0.15	1.8 0.05	1.8 0.15	575
ohms Hrs to 0.9V	1.8 0.10	1.8 0.10	1.8 0.10	1.8 0.10	1.8 0.10	1.8 0.10	576
ohms Hrs to 0.9V	18 8.55	18 9.15	18 8.95	18 9.55	18 8.95	18 9.15	577
ohms Hrs to 0.9V	18 9.45	18 10.10	18 9.35	18 10.50	18 9.10	18 10.10	578
ohms Hrs to 0.9V	22 10.75	22 12.00	22 11.15	22 10.70	22 11.25	22 11.55	579
ohms Hrs to 0.9V	22 10.70	22 10.45	22 11.85	22 12.20	22 11.50	22 11.55	580
ohms Hrs to 0.9V	22 10.75	22 10.95	22 9.00	22 9.60	22 12.20	22 10.05	581
ohms Hrs to 0.9V	22 8.2	22	22 11.40	22 11.10	22 11.05	22 11.30	582

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SOL-6274 Reference	Notes
583	64OR	40	Initial	Chart 1	
584	64OR	115	Initial	Chart 1	
585	64OR	160	Initial	Chart 1	
586	64OR	20	Initial	Chart 1	
587	64OR	20	Initial	Chart 1	
588	64OR	20	Initial	Chart 1	3 cells
589	64OR	115	Initial	Chart 1	
590	64OR	115	Initial	Chart 1	
591	64OR	115	Initial	Chart 1	3 cells
592	64OR	160	Initial	Chart 1	
593	64OR	160	Initial	Chart 1	3 cells
594	64OR	160	Initial	Chart 1	
595	42R	200	Initial	Chart 1	3 cells
596	42R	200	Initial	Chart 1	
597	42R	200	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	18 0.10	18 0.15	18 0.10	18 0.15	18 0.05	18 0.05	583
ohms Hrs to 0.9V	180 88.35	180 81.95	180 74.55	180 84.00	180 86.30	180 74.05	584
ohms Hrs to 0.9V	180 88.75	180 88.55	180 84.30	180 63.40	180 88.85	180 52.35	585
ohms Hrs to 0.9V	180 4.10	180 10.15	180 4.60	180 2.85	180 2.90	180 10.15	586
ohms Hrs to 0.9V	180 1.80	180 4.05	180 5.40	180 3.50	180 6.60	180 5.40	587
ohms Hrs to 0.9V	180 1.65	180 4.15	180 5.4				588
ohms Hrs to 0.9V	47 22.15	47 22.40	47 23.10	47 22.05	47 22.10	47 20.75	589
ohms Hrs to 0.9V	47 24.10	47 23.65	47 22.40	47 19.75	47 22.60	47 23.30	590
ohms Hrs to 0.9V	47 22.75	47 23.20	47 24.75				591
ohms Hrs to 0.9V	47 24.10	47 23.45	47 18.10	47 22.80	47 21.50	47 23.20	592
ohms Hrs to 0.9V	47 22.85	47 21.20	47 15.50				593
ohms Hrs to 0.9V	47 20.45	47 16.50	47 18.85	47 23.05	47 22.50	47 23.85	594
ohms Hrs to 0.9V	2.2 22.95	2.2 20.35	2.2 23.05				595
ohms Hrs to 0.9V	1.8 18.50	1.8 16.80	1.8 17.00	1.8 21.70	1.8 18.50	1.8 19.55	596
ohms Hrs to 0.9V	1.8 19.05	1.8 19.00	1.8 17.05	1.8 16.65	1.8 16.85	1.8 18.40	597

APPENDIX III

Test No.	Cell Type	Temp., °F.	Storage	SCL-6274 Reference	Notes
598	42R	20	Initial	Chart 1	
599	42R	20	Initial	Chart 1	
600	64OR	400	Initial	Chart 1	3 cells
601	12R	-20	Initial	Chart 1	3 cells
602	64OR	40	Initial	Chart 1	
603	64OR	40	Initial	Chart 1	
604	64OR	115	Initial	Chart 1	3 cells
605	64OR	160	Initial	Chart 1	3 cells
606	12R	200	1 Mo. @ 160°F.	Chart 2	
607	12R	200	1 Mo. @ 160°F.	Chart 2	
608	12R	40	1 Mo. @ 160°F.	Chart 2	
609	12R	40	1 Mo. @ 160°F.	Chart 2	
610	64OR	20	Initial	Chart 1	
611	64OR	20	Initial	Chart 1	
612	64OR	20	Initial	Chart 1	3 cells

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	1.8 0.10	1.8 0.10	1.8 0.10	1.8 0.15	1.8 0.10	1.8 0.10	598
ohms Hrs to 0.9V	1.8 0.15	1.8 0.15	1.8 0.20	1.8 0.10	1.8 0.10	1.8 0.15	599
ohms Hrs to 0.9V	22 0.15	22 0.05	22 0.15				600
ohms Hrs to 0.9V	33 0.70	33 1.00	33 0.50				601
ohms Hrs to 0.9V	22 0.20	22 0.15	22 0.15	22 0.05	22 0.10	22 0.05	602
ohms Hrs to 0.9V	22 0.20	22 0.20	22 0.45	22 0.15	22 0.05	22 0.10	603
ohms Hrs to 0.9V	22 11.05	22 11.20	22 11.65				604
ohms Hrs to 0.9V	22 10.25	22 9.65	22 11.45				605
ohms Hrs to 0.9V	4.7 2.35	4.7 2.30	4.7 2.10	4.7 2.25	4.7 2.40	4.7 1.90	606
ohms Hrs to 0.9V	4.7 2.35	4.7 2.55	4.7 2.85	4.7 11.60	4.7 2.45	4.7 1.80	607
ohms Hrs to 0.9V	4.7 0.20	4.7 0.30	4.7 0.30	4.7 0.20	4.7 0.30	4.7 0.75	608
ohms Hrs to 0.9V	4.7 0.35	4.7 0.35	4.7 0.30	4.7 0.25	4.7 0.30	4.7 0.55	609
ohms Hrs to 0.9V	27 0.15	27 0.10	27 0.15	27 0.15	27 0.15	27 0.15	610
ohms Hrs to 0.9V	27 0.15	27 0.20	27 0.15	27 0.15	27 0.15	27 0.10	611
ohms Hrs to 0.9V	27 0.15	27 0.10	27 0.10				612

APPENDIX I III

Test No.	Cell Type	Temp. °F.	Storage	SCL-62% Reference	Notes
613	64OR	40	Initial	Chart 1	
614	64OR	40	Initial	Chart 1	
615	64OR	40	Initial	Chart 1	3 cells
616	64OR	70	Initial	Chart 1	3 cells
617	64OR	20	Initial	Chart 1	3 cells
618	64OR	20	Initial	Chart 1	
619	64OR	20	Initial	Chart 1	
620	64OR	160	Initial	Chart 1	No. 4 cell test defective
621	64OR	160	Initial	Chart 1	
622	64OR	160	Initial	Chart 1	3 cells
623	64OR	115	Initial	Chart 1	
624	64OR	115	Initial	Chart 1	
625	64OR	115	Initial	Chart 1	3 cells
626	64OR	160	Initial	Chart 1	
627	64OR	160	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	27 0.10	27 0.15	27 0.10	27 0.15	27 0.30	27 0.20	613
ohms Hrs to 0.9V	27 0.50	27 0.55	27 0.25	27 0.45	27 0.45	27 0.45	614
ohms Hrs to 0.9V	27 0.10	27 0.15	27 0.15				615
ohms Hrs to 0.9V	27 1.45	27 9.35	27 3.55				616
ohms Hrs to 0.9V	22 0.10	22 0.10	22 0.10				617
ohms Hrs to 0.9V	22 0.05	22 0.00	22 0.05	22 0.05	22 0.05	22 0.00	618
ohms Hrs to 0.9V	22 0.05	22 0.05	22 0.05	22	22 0.05	22 0.05	619
ohms Hrs to 0.9V	39 19.85	39 15.60	39 12.35	39 18.85	39 19.95	39 15.40	620
ohms Hrs to 0.9V	39 12.30	39 11.85	39 19.45	39 18.60	39 10.45	39 19.25	621
ohms Hrs to 0.9V	39 18.75	39 19.45	39 19.40				622
ohms Hrs to 0.9V	39 20.05	39 19.35	39 17.73	39 20.85	39 18.45	39 20.80	623
ohms Hrs to 0.9V	39 18.70	39 19.80	39 19.35	39 19.00	39 17.60	39 19.15	624
ohms Hrs to 0.9V	39 18.65	39 18.70	39 21.45				625
ohms Hrs to 0.9V	27 10.45	27 12.25	27 10.55	27 10.65	27 12.65	27 11.65	626
ohms Hrs to 0.9V	27 12.35	27 8.93	27 7.95	27 11.60	27 12.90	27 12.95	627

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
628	64OR	160	Initial	Chart 1	3 cells
629	64OR	115	Initial	Chart 1	No. 4 cell test defective
630	64OR	115	Initial	Chart 1	
631	64OR	115	Initial	Chart 1	3 cells
632	64OR	40	Initial	Chart 1	
633	64OR	40	Initial	Chart 1	
634	64OR	40	Initial	Chart 1	3 cells
635	12R	115	2 Mo. @ 160°F.	Chart 2	Not required and test discontinued
636	12R	115	2 Mo. @ 160°F.	Chart 2	
637	12R	70	2 Mo. @ 160°F.	Chart 2	Test disconnected in error. Repeated as 688
638	12R	200	1 Mo. @ 160°F.	Chart 2	
639	12R	200	1 Mo. @ 160°F.	Chart 2	
640	12R	-20	Initial	Chart 1	3 cells
641	12R	160	1 Mo. @ 160°F.	Chart 2	
642	12R	160	1 Mo. @ 160°F.	Chart 2	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	27 12.55	27 11.45	27 11.80				628
ohms Hrs to 0.9V	27 14.00	27 12.70	27 14.15	27	27 13.50	27 14.20	629
ohms Hrs to 0.9V	27 14.05	27 13.30	27 14.20	27 13.35	27 13.00	27 13.10	630
ohms Hrs to 0.9V	27 13.00	27 11.50	27 13.35				631
ohms Hrs to 0.9V	47 0.75	47 0.80	47 0.55	47 1.80	47 1.10	47 0.85	632
ohms Hrs to 0.9V	47 1.50	47 1.10	47 1.15	47 1.50	47 1.15	47 0.85	633
ohms Hrs to 0.9V	47 1.20	47 1.20	47 1.20				634
ohms Hrs to 0.9V	330	330	330	330	330	330	635
ohms Hrs to 0.9V	33 87.65	33 85.75	33 102.45	33 96.95	33 94.85	33 98.05	636
ohms Hrs to 0.9V							637
ohms Hrs to 0.9V	3.3 1.05	3.3 10.05	3.3 8.60	3.3 1.45	3.3 0.95	3.3 9.25	638
ohms Hrs to 0.9V	3.3 9.40	3.3 1.45	3.3 10.00	3.3 1.30	3.3 1.10	3.3 1.25	639
ohms Hrs to 0.9V	8.2 0.30	8.2 0.35	8.2 0.40				640
ohms Hrs to 0.9V	3.3 1.05	3.3 10.00	3.3 9.15	3.3 10.15	3.3 8.65	3.3 10.70	641
ohms Hrs to 0.9V	3.3 9.65	3.3 10.75	3.3 9.05	3.3 10.35	3.3 1.30	3.3 10.45	642

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
643	12R	160	2 Mo. @ 160°F	Chart 2	
644	12R	160	2 Mo. @ 160°F	Chart 2	
645	12R	70	1 Mo. @ 160°F	Chart 2	
646	12R	160	6 Mo. @ -20°F	Chart 2	
647	12R	160	6 Mo. @ -20°F	Chart 2	
648	12R	160	6 Mo. @ -20°F	Chart 2	
649	12R	160	6 Mo. @ -20°F	Chart 2	
650	640R	40	Initial	Chart 1	
651	640R	40	Initial	Chart 1	
652	12R	70	6 Mo. @ -20°F	Chart 2	
653	12R	40	2 Mo. @ 160°F	Chart 2	
654	12R	40	2 Mo. @ 160°F	Chart 2	
655	12R	40	2 Mo. @ 160°F	Chart 2	
656	12R	40	2 Mo. @ 160°F	Chart 2	
657	640R	20	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	4.7 1.95	4.7 1.70	4.7 1.80	4.7 2.00	4.7 1.95	4.7 1.90	643
ohms Hrs to 0.9V	4.7 1.90	4.7 2.05	4.7 1.70	4.7 1.70	4.7 1.60	4.7 1.95	644
ohms Hrs to 0.9V	3.3 0.45	3.3 0.65	3.3 0.40	3.3 1.00	3.3 0.35	3.3 0.30	645
ohms Hrs to 0.9V	3.3 9.80	3.3 11.25	3.3 10.00	3.3 10.25	3.3 10.15	3.3 10.30	646
ohms Hrs to 0.9V	3.3 11.00	3.3 10.40	3.3 10.40	3.3 10.40	3.3 10.30	3.3 10.45	647
ohms Hrs to 0.9V	3.3 10.75	3.3 10.85	3.3 10.35	3.3 10.95	3.3 10.90	3.3 11.05	648
ohms Hrs to 0.9V	3.3 9.20	3.3 9.20	3.3 9.55	3.3 9.70	3.3 10.15	3.3 10.55	649
ohms Hrs to 0.9V	39 0.75	39 1.10	39 0.50	39 0.45	39 0.45	39 0.75	650
ohms Hrs to 0.9V	39 0.40	39 0.55	39 0.95	39 0.40	39 0.60	39 0.30	651
ohms Hrs to 0.9V	3.3 6.35	3.3 6.00	3.3 6.65	3.3 6.10	3.3 6.55	3.3 5.85	652
ohms Hrs to 0.9V	4.7 0.0	4.7 0.0	4.7 0.15	4.7 0.10	4.7 0.15	4.7 0.02	653
ohms Hrs to 0.9V	4.7 0.15	4.7 0.30	4.7 0.05	4.7 0.10	4.7 0.35	4.7 0.10	654
ohms Hrs to 0.9V	4.7 0.20	4.7 0.40	4.7 0.25	4.7 0.35	4.7 0.25	4.7 0.15	655
ohms Hrs to 0.9V	4.7 0.35	4.7 0.35	4.7 0.35	4.7 0.80	4.7 0.45	4.7 0.50	656
ohms Hrs to 0.9V	47 0.15	47 0.10	47 0.15	47 0.10	47 0.20	47 0.25	657

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
658	64OR	20	Initial	Chart 1	No. 4 Cell test defective
659	64OR	20	Initial	Chart 1	3 cells
660	64OR	200	Initial	Chart 1	
661	64OR	200	Initial	Chart 1	
662	12R	70	6 Mo. @ -20°F	Chart 2	
663	12R	70	6 Mo. @ -20°F	Chart 2	
664	12R	70	6 Mo. @ -20°F	Chart 2	
665	12R	70	6 Mo. @ -20°F	Chart 2	
666	12R	40	2 Mo. @ 160°F	Chart 2	
667	12R	40	2 Mo. @ 160°F	Chart 2	No. 4 Cell test defective
668	12R	70	2 Mo. @ 160°F	Chart 2	
669	12R	-20	2 Mo. @ 160°F	Chart 2	All cells less than .05 hr.
670	12R	-20	2 Mo. @ 160°F	Chart 2	All cells less than .05 hr.
671	64OR	70	Initial	Chart 1	No. 4 cell test defective
672	64OR	70	Initial	Chart 1	3 cells

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	47 0.20	47 0.10	47 0.20	47	47 0.15	47 0.30	658
ohms Hrs to 0.9V	47 0.25	47 0.30	47 0.30				659
ohms Hrs to 0.9V	180 81.80	180 63.65	180 62.50	180 75.10	180 84.60	180 67.50	660
ohms Hrs to 0.9V	180 82.25	180 78.45	180 82.65	180 85.90	180 70.10	180 60.50	661
ohms Hrs to 0.9V	3.3 8.20	3.3 7.70	3.3 7.10	3.3 7.35	3.3 7.85	3.3 8.30	662
ohms Hrs to 0.9V	3.3 6.75	3.3 7.55	3.3 7.00	3.3 6.65	3.3 7.10	3.3 6.90	663
ohms Hrs to 0.9V	3.3 9.00	3.3 6.90	3.3 7.10	3.3 7.00	3.3 7.45	3.3 8.10	664
ohms Hrs to 0.9V	3.3 7.75	3.3 7.75	3.3 7.70	3.3 7.95	3.3 8.30	3.3 8.10	665
ohms Hrs to 0.9V	33 17.35	33 15.80	33 18.65	33 20.85	33 22.65	33 29.65	666
ohms Hrs to 0.9V	33 74.65	33 75.20	33 89.80	33	33 90.85	33 85.40	667
ohms Hrs to 0.9V	3.3 6.15	3.3 6.30	3.3 6.55	3.3 5.85	3.3 5.95	3.3 5.85	668
ohms Hrs to 0.9V	33	33	33	33	33	33	669
ohms Hrs to 0.9V	33	33	33	33	33	33	670
ohms Hrs to 0.9V	47 18.70	47 19.90	47 20.75	47	47 20.65	47 20.95	671
ohms Hrs to 0.9V	47 22.70	47 23.70	47 22.70				672

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
673	64OR	70	Initial	Chart 1	
674	64OR	70	Initial	Chart 1	3 cells
675	64OR	200	Initial	Chart 1	
676	64OR	200	Initial	Chart 1	
677	12R	115	6 Mo. @ -20°F	Chart 2	
678	12R	115	6 Mo. @ -20°F	Chart 2	
679	12R	115	6 Mo. @ -20°F	Chart 2	
680	12R	115	6 Mo. @ -20°F	Chart 2	
681	64OR	160	Initial	Chart 1	
682	64OR	160	Initial	Chart 1	
683	64OR	160	Initial	Chart 1	3 cells
684	12R	160	2 Mo. @ 160°F	Chart 2	
685	12R	160	2 Mo. @ 160°F	Chart 2	
686	12R	160	2 Mo. @ 160°F	Chart 2	
687	12R	160	2 Mo. @ 160°F	Chart 2	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	39 15.50	39 20.30	39 18.25	39 17.25	39 18.25	39 15.55	673
ohms Hrs to 0.9V	39 16.40	39 20.40	39 15.50				674
ohms Hrs to 0.9V	47 21.85	47 23.05	47 23.15	47 22.45	47 23.40	47 23.30	675
ohms Hrs to 0.9V	47 5.70	47 20.10	47 22.80	47 22.75	47 6.90	47 21.20	676
ohms Hrs to 0.9V	3.3 9.60	3.3 9.35	3.3 9.95	3.3 10.00	3.3 9.95	3.3 10.65	677
ohms Hrs to 0.9V	3.3 9.35	3.3 10.35	3.3 9.85	3.3 9.60	3.3 8.85	3.3 9.65	678
ohms Hrs to 0.9V	3.3 9.50	3.3 9.65	3.3 9.80	3.3 9.30	3.3 10.95	3.3 10.30	679
ohms Hrs to 0.9V	3.3 9.70	3.3 9.80	3.3 10.35	3.3 9.45	3.3 9.95	3.3 9.70	680
ohms Hrs to 0.9V	18 13.45	18 8.50	18 7.40	18 8.95	18 8.70	18 8.15	681
ohms Hrs to 0.9V	18 7.95	18 8.95	18 8.60	18 9.75	18 9.10	18 9.00	682
ohms Hrs to 0.9V	18 9.45	18 8.40	18 8.60				683
ohms Hrs to 0.9V	3.3 9.7	3.3 9.5	3.3 9.55	3.3 9.20	3.3 9.45	3.3 9.25	684
ohms Hrs to 0.9V	3.3 9.35	3.3 10.0	3.3 9.7	3.3 9.25	3.3 9.45	3.3 9.20	685
ohms Hrs to 0.9V	3.3 9.70	3.3 9.30	3.3 9.55	3.3 9.65	3.3 9.65	3.3 10.20	686
ohms Hrs to 0.9V	3.3 9.30	3.3 9.40	3.3 9.30	3.3 9.35	3.3 1.25	3.3 9.25	687

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
688	12R	70	2 Mo. @ 160°F	Chart 2	
689	12R	160	6 Mo. @ 20°F	Chart 2	
690	12R	160	6 Mo. @ 20°F	Chart 2	
691	12R	160	6 Mo. @ 20°F	Chart 2	
692	12R	160	6 Mo. @ 20°F	Chart 2	
693	640R	20	Initial	Chart 1	
694	640R	20	Initial	Chart 1	No. 4 cell test defective
695	640R	20	Initial	Chart 1	3 cells
696	640R	40	Initial	Chart 1	
697	640R	40	Initial	Chart 1	No. 2 cell test defective 3 cells
698	640R	20	Initial	Chart 1	
699	640R	20	Initial	Chart 1	
700	640R	20	Initial	Chart 1	3 cells
701	12R	160	2 Mo. @ 160°F	Chart 2	
702	12R	160	2 Mo. @ 160°F	Chart 2	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	33 103.75	33 101.60	33 97.25	33 98.95	33 104.15	33 102.16	688
ohms Hrs to 0.9V	3.3 9.50	3.3 9.90	3.3 9.25	3.3 10.00	3.3 10.75	3.3 9.45	689
ohms Hrs to 0.9V	3.3 9.70	3.3 10.20	3.3 10.10	3.3 10.45	3.3 9.70	3.3 9.60	690
ohms Hrs to 0.9V	3.3 9.95	3.3 10.90	3.3 9.35	3.3 10.70	3.3 9.20	3.3 9.90	691
ohms Hrs to 0.9V	3.3 9.90	3.3 9.50	3.3 9.75	3.3 10.15	3.3 9.60	3.3 9.50	692
ohms Hrs to 0.9V	39 0.15	39 0.50	39 0.15	39 0.20	39 0.15	39 0.15	693
ohms Hrs to 0.9V	39 0.20	39 0.20	39 0.20	39	39 0.25	39 0.50	694
ohms Hrs to 0.9V	39 0.25	39 0.05	39 0.45				695
ohms Hrs to 0.9V	18 0.05	18 0.10	18 0.15	18 0.15	18 0.20	18 0.15	696
ohms Hrs to 0.9V	18 0.05	18	18 0.10				697
ohms Hrs to 0.9V	18 0.05	18 0.10	18 0.05	18 0.35	18 0.10	18 0.10	698
ohms Hrs to 0.9V	18 0.15	18 0.15	18 0.15	18 0.15	18 0.15	18 0.10	699
ohms Hrs to 0.9V	18 0.10	18 0.15	18 0.10				700
ohms Hrs to 0.9V	4.7 1.95	4.7 1.95	4.7 13.75	4.7 1.70	4.7 1.50	4.7 13.30	701
ohms Hrs to 0.9V	4.7 1.55	4.7 1.75	4.7 12.40	4.7 14.10	4.7 1.60	4.7 13.30	702

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
703	12R	40	2 Mo. @ 160°F	Chart 2	
704	12R	40	2 Mo. @ 160°F	Chart 2	
705	12R	40	2 Mo. @ 160°F	Chart 2	
706	12R	40	2 Mo. @ 160°F	Chart 2	
707	12R	-20	2 Mo. @ 160°F	Chart 2	
708	12R	-20	2 Mo. @ 160°F	Chart 2	
709	12R	115	2 Mo. @ 160°F	Chart 2	No. 5 cell test defective
710	12R	115	2 Mo. @ 160°F	Chart 2	
711	12R	115	2 Mo. @ 160°F	Chart 2	
712	12R	115	2 Mo. @ 160°F	Chart 2	
713	42R	20	Initial	Chart 1	3 cells
714	42R	200	Initial	Chart 1	3 cells
715	42R	200	Initial	Chart 1	3 cells
716	12R	40	6 Mo. @ -20°F	Chart 2	
717	12R	40	6 Mo. @ -20°F	Chart 2	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	3.3 0.20	3.3 0.15	3.3 0.15	3.3 0.05	3.3 0.10	3.3 0.10	703
ohms Hrs to 0.9V	3.3 0.25	3.3 0.20	3.3 0.20	3.3 0.20	3.3 0.20	3.3 0.30	704
ohms Hrs to 0.9V	3.3 0.15	3.3 0.20	3.3 0.05	3.3 0.10	3.3 0.05	3.3 0.10	705
ohms Hrs to 0.9V	3.3 0.10	3.3 0.15	3.3 0.25	3.3 0.25	3.3 0.20	3.3 0.25	706
ohms Hrs to 0.9V	33 0.80	33 1.25	33 0.75	33 1.15	33 1.20	33 0.80	707
ohms Hrs to 0.9V	33 1.05	33 1.15	33 1.30	33 0.95	33 0.95	33 0.90	708
ohms Hrs to 0.9V	3.3 11.25	3.3 10.05	3.3 10.20	3.3 10.55	3.3 10.55	3.3 11.05	709
ohms Hrs to 0.9V	3.3 10.20	3.3 10.40	3.3 11.35	3.3 9.95	3.3 9.20	3.3 10.10	710
ohms Hrs to 0.9V	3.3 9.95	3.3 9.80	3.3 10.00	3.3 9.85	3.3 9.90	3.3 10.20	711
ohms Hrs to 0.9V	3.3 10.20	3.3 10.45	3.3 10.20	3.3 10.40	3.3 10.30	3.3 10.45	712
ohms Hrs to 0.9V	2.2 0.05	2.2 0.05	2.2 0.00				713
ohms Hrs to 0.9V	1.2 15.05	1.2 14.20	1.2 14.45				714
ohms Hrs to 0.9V	1.8 20.70	1.8 15.50	1.8 22.10				715
ohms Hrs to 0.9V	3.3 0.15	3.3 0.15	3.3 0.15	3.3 0.20	3.3 0.20	3.3 0.15	716
ohms Hrs to 0.9V	3.3 0.20	3.3 0.25	3.3 0.20	3.3 0.30	3.3 0.20	3.3 0.30	717

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
718	12R	40	6 Mo. @ -20°F	Chart 2	No. 6 Cell test defective
719	12R	40	6 Mo. @ -20°F	Chart 2	
720	12R	160	6 Mo. @ 70°F	Chart 2	
721	12R	160	6 Mo. @ 70°F	Chart 2	3 cells
722	12R	160	6 Mo. @ 115°F	Chart 2	
723	12R	160	6 Mo. @ 115°F	Chart 2	
724	12R	160	6 Mo. @ 115°F	Chart 2	No. 1 Cell test defective
725	12R	160	6 Mo. @ 115°F	Chart 2	
726	12R	115	6 Mo. @ 20°F	Chart 2	
727	12R	115	6 Mo. @ 20°F	Chart 2	
728	12R	115	6 Mo. @ 20°F	Chart 2	
729	12R	115	6 Mo. @ 20°F	Chart 2	
730	640R	40	Initial	Chart 1	
731	640R	40	Initial	Chart 1	
732	640R	40	Initial	Chart 1	3 cells

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	3.3 0.10	3.3 0.10	3.3 0.10	3.3 0.25	3.3 0.20	3.3 0.20	718
ohms Hrs to 0.9V	3.3 0.20	3.3 0.25	3.3 0.20	3.3 0.30	3.3 0.20	3.3 0.40	719
ohms Hrs to 0.9V	3.3 9.4	3.3 9.9	3.3 9.7	3.3 9.45	3.3 9.9	3.3 10.05	720
ohms Hrs to 0.9V	3.3 9.65	3.3 9.40	3.3 9.15				721
ohms Hrs to 0.9V	3.3 8.8	3.3 8.4	3.3 8.75	3.3 10.15	3.3 8.95	3.3 10.20	722
ohms Hrs to 0.9V	3.3 8.55	3.3 7.55	3.3 8.35	3.3 9.40	3.3 9.30	3.3 9.70	723
ohms Hrs to 0.9V	3.3 8.60	3.3 8.95	3.3 8.55	3.3 8.10	3.3 8.10	3.3 8.10	724
ohms Hrs to 0.9V	3.3 8.95	3.3 8.75	3.3 8.95	3.3 9.40	3.3 8.55	3.3 9.45	725
ohms Hrs to 0.9V	3.3 10.40	3.3 10.45	3.3 9.05	3.3 9.65	3.3 10.05	3.3 9.45	726
ohms Hrs to 0.9V	3.3 9.35	3.3 9.25	3.3 8.25	3.3 11.00	3.3 9.80	3.3 9.95	727
ohms Hrs to 0.9V	3.3 8.85	3.3 10.45	3.3 9.75	3.3 9.70	3.3 8.90	3.3 9.10	728
ohms Hrs to 0.9V	3.3 9.75	3.3 9.15	3.3 9.50	3.3 10.10	3.3 10.30	3.3 9.20	729
ohms Hrs to 0.9V	180 45.15	180 16.75	180 22.95	180 11.45	180 18.70	180 26.10	730
ohms Hrs to 0.9V	180 46.00	180 42.25	180 45.10	180 43.20	180 40.60	180 45.15	731
ohms Hrs to 0.9V	180 73.25	180 73.35	180 73.05				732

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
733	12R	200	6 Mo. @ -20°F	Chart 2	
734	12R	200	6 Mo. @ -20°F	Chart 2	
735	12R	200	6 Mo. @ -20°F	Chart 2	
736	12R	200	6 Mo. @ -20°F	Chart 2	
737	12R	115	6 Mo. @ 70°F	Chart 2	
738	12R	115	6 Mo. @ 70°F	Chart 2	3 cells
739	12R	40	6 Mo. @ 20°F	Chart 2	
740	12R	40	6 Mo. @ 20°F	Chart 2	
741	12R	40	6 Mo. @ 20°F	Chart 2	
742	12R	40	6 Mo. @ 20°F	Chart 2	
743	12R	160	6 Mo. @ 115°F	Chart 2	
744	12R	160	6 Mo. @ 115°F	Chart 2	
745	42R	160	Initial	Chart 1	
746	42R	160	Initial	Chart 1	3 Cells
747	12R	115	6 Mo. @ 115°F	Chart 2	No. 6 Cell Test defective

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	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	3.3 3.05	3.3 2.25	3.3 1.85	3.3 2.40	3.3 2.00	3.3 1.70	733
ohms Hrs to 0.9V	3.3 8.25	3.3 2.30	3.3 8.40	3.3 2.45	3.3 2.40	3.3 8.45	734
ohms Hrs to 0.9V	3.3 1.95	3.3 6.10	3.3 1.95	3.3 7.70	3.3 8.60	3.3 1.60	735
ohms Hrs to 0.9V	3.3 6.5	3.3 8.3	3.3 2.2	3.3 7.6	3.3 6.85	3.3 7.15	736
ohms Hrs to 0.9V	3.3 9.45	3.3 9.35	3.3 9.40	3.3 10.55	3.3 10.55	3.3 9.55	737
ohms Hrs to 0.9V	3.3 9.70	3.3 9.45	3.3 9.35				738
ohms Hrs to 0.9V	3.3 0.30	3.3 0.25	3.3 0.25	3.3 0.25	3.3 0.20	3.3 0.25	739
ohms Hrs to 0.9V	3.3 0.40	3.3 0.45	3.3 0.40	3.3 0.35	3.3 0.50	3.3 0.55	740
ohms Hrs to 0.9V	3.3 0.35	3.3 0.25	3.3 0.25	3.3 0.20	3.3 0.20	3.3 0.25	741
ohms Hrs to 0.9V	3.3 0.60	3.3 0.35	3.3 0.40	3.3 0.50	3.3 0.45	3.3 0.45	742
ohms Hrs to 0.9V	3.3 2.8	3.3 9.05	3.3 8.70	3.3 8.25	3.3 8.70	3.3 8.85	743
ohms Hrs to 0.9V	3.3 9.65	3.3 9.05	3.3 9.25	3.3 9.90	3.3 9.30	3.3 9.75	744
ohms Hrs to 0.9V	0.75 9.65	0.75 9.65	0.75 10.40	0.75 9.10	0.75 10.00	0.75 9.75	745
ohms Hrs to 0.9V	0.75 9.00	0.75 9.90	0.75 9.65				746
ohms Hrs to 0.9V	3.3 8.35	3.3 8.50	3.3 8.35	3.3 7.80	3.3 8.60	3.3 8.3	747

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
748	12R	115	6 Mo. @ 115°F	Chart 2	
749	12R	115	6 Mo. @ 115°F	Chart 2	
750	12R	115	6 Mo. @ 115°F	Chart 2	
751	12R	40	6 Mo. @ 115°F	Chart 2	
752	12R	40	6 Mo. @ 115°F	Chart 2	
753	12R	40	6 Mo. @ 115°F	Chart 2	
754	12R	40	6 Mo. @ 115°F	Chart 2	
755	640R	200	Initial	Chart 1	3 cells
756	12R	20	Initial	Chart 1	
757	12R	20	Initial	Chart 1	
758	12R	20	Initial	Chart 1	3 cells
759	12R	-20	Initial	Chart 1	
760	12R	-20	Initial	Chart 1	
761	12R	-20	Initial	Chart 1	3 cells
762	12R	0	Initial	Chart 1	

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	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	3.3 9.90	3.3 9.50	3.3 7.55	3.3 8.15	3.3 7.75	3.3 8.15	748
ohms Hrs to 0.9V	3.3 8.4	3.3 7.75	3.3 8.05	3.3 8.00	3.3 8.70	3.3 8.70	749
ohms Hrs to 0.9V	3.3 8.45	3.3 8.45	3.3 10.25	3.3 7.75	3.3 8.10	3.3 8.55	750
ohms Hrs to 0.9V	3.3 0.20	3.3 0.10	3.3 0.20	3.3 0.10	3.3 0.10	3.3 0.15	751
ohms Hrs to 0.9V	3.3 0.20	3.3 0.15	3.3 0.15	3.3 0.15	3.3 0.20	3.3 0.15	752
ohms Hrs to 0.9V	3.3 0.15	3.3 0.10	3.3 0.20	3.3 0.15	3.3 0.15	3.3 0.25	753
ohms Hrs to 0.9V	3.3 0.20	3.3 0.25	3.3 0.25	3.3 0.20	3.3 0.25	3.3 0.25	754
ohms Hrs to 0.9V	180 49.4	180 49.45	180 49.35				755
ohms Hrs to 0.9V	5.6 0.15	5.6 0.10	5.6 0.20	5.6 0.15	5.6 0.20	5.6 0.15	756
ohms Hrs to 0.9V	5.6 0.20	5.6 0.20	5.6 0.15	5.6 0.10	5.6 0.15	5.6 0.25	757
ohms Hrs to 0.9V	5.6 0.35	5.6 0.20	5.6 0.40				758
ohms Hrs to 0.9V	8.2 0.05	8.2 0.10	8.2 0.10	8.2 0.05	8.2 0.10	8.2 0.10	759
ohms Hrs to 0.9V	8.2 0.10	8.2 0.20	8.2 0.25	8.2 0.15	8.2 0.15	8.2 0.20	760
ohms Hrs to 0.9V	8.2 0.20	8.2 0.20	8.2 0.20				761
ohms Hrs to 0.9V	8.2 0.15	8.2 0.20	8.2 0.15	8.2 0.15	8.2 0.15	8.2 0.10	762

APPENDIX III

Test No.	Cell Type	Temp. °F	Storage	SCL-6274 Reference	Notes
763	12R	0	Initial	Chart 1	
764	12R	0	Initial	Chart 1	3 cells
765	42R	-20	Initial	Chart 1	
766	42R	160	Initial	Chart 1	
767	42R	20	Initial	Chart 1	No. 2 cell test defective
768	42R	20	Initial	Chart 1	
769	42R	-20	Initial	Chart 1	3 cells. Cell No. 2 & 3 less than 0.05 hr.
770	12R	115	2 Mo. @ 160°F	Chart 2	
771	12R	115	2 Mo. @ 160°F	Chart 2	
772	12R	115	2 Mo. @ 160°F	Chart 2	
773	12R	115	2 Mo. @ 160°F	Chart 2	
774	12R	40	6 Mo. @ 70°F	Chart 2	
775	12R	40	6 Mo. @ 70°F	Chart 2	3 cells
776	12R	200	6 Mo. @ 70°F	Chart 2	
777	12R	200	6 Mo. @ 70°F	Chart 2	3 cells

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	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	8.2 0.15	8.2 0.20	8.2 0.15	8.2 0.10	8.2 0.25	8.2 0.20	763
ohms Hrs to 0.9V	8.2 0.05	8.2 0.10	8.2 0.10				764
ohms Hrs to 0.9V	2.2 0.10	2.2 0.10	2.2 0.10	2.2 0.10	2.2 0.10	2.2 0.10	765
ohms Hrs to 0.9V	.75 10.00	.75 10.00	.75 9.00	.75 10.00	.75 9.70	.75 9.70	766
ohms Hrs to 0.9V	2.2 0.10	2.2 0.15	2.2 0.15	2.2 0.15	2.2 0.20	2.2 0.10	767
ohms Hrs to 0.9V	2.2 0.15	2.2 0.20	2.2 0.15	2.2 0.15	2.2 0.15	2.2 0.15	768
ohms Hrs to 0.9V	2.2 0.10	2.2 0.10	2.2 0.10				769
ohms Hrs to 0.9V	4.7 15.65	4.7 13.85	4.7 14.05	4.7 14.35	4.7 15.15	4.7 14.10	770
ohms Hrs to 0.9V	4.7 14.95	4.7 14.25	4.7 15.40	4.7 14.60	4.7 14.00	4.7 14.90	771
ohms Hrs to 0.9V	4.7 14.75	4.7 14.85	4.7 15.15	4.7 13.95	4.7 14.70	4.7 14.35	772
ohms Hrs to 0.9V	4.7 14.90	4.7 14.65	4.7 13.80	4.7 14.40	4.7 14.10	4.7 14.20	773
ohms Hrs to 0.9V	3.3 0.05	3.3 0.05	3.3 0.05	3.3 0.05	3.3 0.05	3.3 0.05	774
ohms Hrs to 0.9V	3.3 0.15	3.3 0.10	3.3 0.10				775
ohms Hrs to 0.9V	3.3 2.45	3.3 1.90	3.3 2.85	3.3 2.25	3.3 1.95	3.3 2.25	776
ohms Hrs to 0.9V	3.3 1.95	3.3 2.50	3.3 1.70				777

APPENDIX I III

Test No.	Cell Type	Temp. °F	Storage	SCL-5274 Reference	Notes
778	42R	115	Initial	Chart 1	
779	42R	115	Initial	Chart 1	
780	42R	115	Initial	Chart 1	3 Cells
781	42R	115	Initial	Chart 1	
782	42R	115	Initial	Chart 1	
783	42R	115	Initial	Chart 1	3 cells
784	12R	200	6 Mo. @ 115°F	Chart 2	No. 3 cell test defective
785	12R	200	6 Mo. @ 115°F	Chart 2	
786	640R	-20	Initial	Chart 1	
787	640R	-20	Initial	Chart 1	
788	640R	-20	Initial	Chart 1	3 cells
789	42R	-20	Initial	Chart 1	3 cells. All less than 0.05 hrs.
790	12R	200	6 Mo. @ 20°F.	Chart 2	
791	12R	200	6 Mo. @ 20°F.	Chart 2	
792	12R	200	6 Mo. @ 20°F	Chart 2	

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	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	4.7 59.50	4.7 58.20	4.7 57.80	4.7 57.80	4.7 63.80	4.7 58.4	778
ohms Hrs to 0.9V	4.7 60.65	4.7 58.5	4.7 57.45	4.7 64.05	4.7 62.3	4.7 55.8	779
ohms Hrs to 0.9V	4.7 57.8	4.7 58.1	4.7 58.45				780
ohms Hrs to 0.9V	0.75 5.25	0.75 5.75	0.75 6.3	0.75 7.35	0.75 5.95	0.75 5.95	781
ohms Hrs to 0.9V	0.75 5.25	0.75 6.30	0.75 5.55	0.75 6.05	0.75 6.25	0.75 6.55	782
ohms Hrs to 0.9V	0.75 7.10	0.75 6.90	0.75 6.75				783
ohms Hrs to 0.9V	3.3 8.60	3.3 9.65	3.3 8.30	3.3 1.25	3.3 8.00	3.3 8.00	784
ohms Hrs to 0.9V	3.3 9.55	3.3 7.95	3.3 7.55	3.3 7.80	3.3 8.70	3.3 8.50	785
ohms Hrs to 0.9V	180 0.90	180 0.65	180 1.00	180 0.95	180 0.75	180 0.55	786
ohms Hrs to 0.9V	180 0.75	180 0.75	180 0.85	180 0.90	180 0.75	180 0.70	787
ohms Hrs to 0.9V	180 0.70	180 0.60	180 0.75				788
ohms Hrs to 0.9V	2.2	2.2	2.2				789
ohms Hrs to 0.9V	3.3 1.10	3.3 2.05	3.3 1.25	3.3 2.30	3.3 1.65	3.3 2.75	790
ohms Hrs to 0.9V	3.3 1.60	3.3 3.00	3.3 6.50	3.3 2.40	3.3 1.80	3.3 2.50	791
ohms Hrs to 0.9V	3.3 1.25	3.3 1.65	3.3 1.75	3.3 2.25	3.3 2.00	3.3 1.95	792

APPENDIX III

Test No.	Cell Type	T ₂₄ , °F	Storage	SCL=62% Reference	Notes
793	12R	200	6 Mo. @ 20°F	Chart 2	No. 2 cell test defective
794	12R	200	2 Mo. @ 160°F	Chart 2	
795	12R	200	2 Mo. @ 160°F	Chart 2	
796	12R	200	2 Mo. @ 160°F	Chart 2	
797	12R	200	2 Mo. @ 160°F	Chart 2	
798	12R	200	2 Mo. @ 160°F	Chart 2	
799	12R	200	2 Mo. @ 160°F	Chart 2	
800	12R	200	2 Mo. @ 160°F	Chart 2	
801	12R	200	2 Mo. @ 160°F	Chart 2	
802	640R	20	Initial	Chart 1	
803	640R	20	Initial	Chart 1	3 cells
804	640R	20	Initial	Chart 1	
805	640R	20	Initial	Chart 1	
806	640R	20	Initial	Chart 1	No. 4 cell test defective
807	640R	20	Initial	Chart 1	3 cells

DISCHARGE TESTS, MOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	3.3 2.45	3.3 2.65	3.3 1.90	3.3 2.70	3.3 2.30	3.3 2.30	793
ohms Hrs to 0.9V	3.3 2.20	3.3 2.00	3.3 2.20	3.3 1.95	3.3 2.20	3.3 2.65	794
ohms Hrs to 0.9V	3.3 1.95	3.3 2.35	3.3 2.10	3.3 2.10	3.3 2.00	3.3 2.20	795
ohms Hrs to 0.9V	3.3 2.05	3.3 2.35	3.3 2.15	3.3 1.85	3.3 2.25	3.3 2.10	796
ohms Hrs to 0.9V	3.3 2.25	3.3 1.95	3.3 2.00	3.3 2.20	3.3 2.20	3.3 2.00	797
ohms Hrs to 0.9V	3.3 1.15	3.3 1.35	3.3 1.40	3.3 1.55	3.3 1.30	3.3 1.00	798
ohms Hrs to 0.9V	3.3 1.55	3.3 1.80	3.3 1.50	3.3 1.30	3.3 1.20	3.3 1.55	799
ohms Hrs to 0.9V	3.3 1.35	3.3 1.55	3.3 1.30	3.3 1.70	3.3 1.55	3.3 1.50	800
ohms Hrs to 0.9V	3.3 1.25	3.3 8.60	3.3 1.55	3.3 1.70	3.3 1.75	3.3 1.35	801
ohms Hrs to 0.9V	68 0.40	68 0.40	68 0.60	68 0.30	68 0.50	68 0.55	802
ohms Hrs to 0.9V	68 0.75	68 0.50	68 0.45				803
ohms Hrs to 0.9V	68 0.50	68 0.35	68 0.60	68 0.60	68 0.65	68 0.60	804
ohms Hrs to 0.9V	100 4.15	100 0.95	100 0.95	100 0.90	100 2.60	100 0.35	805
ohms Hrs to 0.9V	100 0.50	100 1.25	100 1.40	100 1.00	100 1.00	100 1.05	806
ohms Hrs to 0.9V	100 1.60	100 1.90	100 1.55				807

APPENDIX III

Test No.	Cell Type	Temp. °F	Storage	SCL-6274 Reference	Notes
808	42R	200	Initial	Chart 1	
809	42R	200	Initial	Chart 1	3 cells
810	12R	20	Initial	Chart 1	
811	12R	20	Initial	Chart 1	
812	12R	20	Initial	Chart 1	3 cells
813	640R	200	Initial	Chart 1	
814	640R	200	Initial	Chart 1	
815	640R	200	Initial	Chart 1	3 cells
816	640R	115	Initial	Chart 1	
817	640R	115	Initial	Chart 1	
818	640R	115	Initial	Chart 1	3 cells
819	640R	115	Initial	Chart 1	3 cells
820	640R	200	Initial	Chart 1	
821	640R	200	Initial	Chart 1	
822	640R	200	Initial	Chart 1	3 cells

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	0.75 9.15	0.75 9.75	0.75 9.70	0.75 9.90	0.75 10.10	0.75 10.15	808
ohms Hrs to 0.9V	0.75 5.95	0.75 8.95	0.75 10.30				809
ohms Hrs to 0.9V	12 0.70	12 1.00	12 0.25	12 0.40	12 0.35	12 1.00	810
ohms Hrs to 0.9V	12 0.95	12 0.35	12 1.70	12 0.70	12 0.40	12 0.25	811
ohms Hrs to 0.9V	12 0.20	12 0.50	12 0.80				812
ohms Hrs to 0.9V	18 8.20	18 9.50	18 7.75	18 8.95	18 7.05	18 8.15	813
ohms Hrs to 0.9V	18 8.30	18 8.75	18 8.80	18 8.05	18 8.60	18 9.10	814
ohms Hrs to 0.9V	18 7.25	18 8.55	18 7.80				815
ohms Hrs to 0.9V	68 33.05	68 33.30	68 33.35	68 26.95	68 27.95	68 32.25	816
ohms Hrs to 0.9V	68 25.70	68 33.20	68 32.75	68 31.60	68 33.50	68 28.75	817
ohms Hrs to 0.9V	68 30.30	68 30.80	68 31.95				818
ohms Hrs to 0.9V	18 8.75	18 9.45	18 9.55				819
ohms Hrs to 0.9V	100 52.75	100 40.90	100 47.10	100 49.50	100 35.90	100 34.05	820
ohms Hrs to 0.9V	100 47.40	100 50.15	100 46.10	100 42.45	100 17.50	100 48.55	821
ohms Hrs to 0.9V	100 14.90	100 47.40	100 47.50				822

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
823	64OR	115	Initial	Chart 1	
824	64OR	115	Initial	Chart 1	
825	64OR	115	Initial	Chart 1	3 cells
826	64OR	0	Initial	Chart 1	
827	64OR	0	Initial	Chart 1	
828	64OR	0	Initial	Chart 1	3 cells
829	64OR	0	Initial	Chart 1	
830	64OR	0	Initial	Chart 1	
831	64OR	0	Initial	Chart 1	3 cells
832	42R	70	Initial	Chart 1	
833	42R	70	Initial	Chart 1	
834	42R	70	Initial	Chart 1	3 cells
835	12R	70	6 Mo. @ +20°F	Chart 2	
836	12R	70	6 Mo. @ +20°F	Chart 2	Cell 3 test defective
837	12R	70	6 Mo. @ +20°F	Chart 2	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	100 45.20	100 52.40	100 48.75	100 45.65	100 38.05	100 49.30	823
ohms Hrs. to 0.9V	100 31.10	100 45.80	100 48.60	100 47.10	100 49.30	100 47.70	824
ohms Hrs. to 0.9V	100 44.50	100 45.95	100 42.50				825
ohms Hrs. to 0.9V	39 0.10	39 0.10	39 0.10	39 0.10	39 0.15	39 0.15	826
ohms Hrs. to 0.9V	39 0.10	39 0.15	39 0.15	39 0.10	39 0.15	39 0.15	827
ohms Hrs. to 0.9V	39 0.10	39 0.10	39 0.15				828
ohms Hrs. to 0.9V	180 0.70	180 0.90	180 0.65	180 1.00	180 1.45	180 2.15	829
ohms Hrs. to 0.9V	180 1.15	180 1.40	180 1.55	180 1.30	180 1.20	180 1.55	830
ohms Hrs. to 0.9V	180 1.05	180 1.40	180 1.10				831
ohms Hrs. to 0.9V	4.7 65.00	4.7 61.70	4.7 57.95	4.7 58.35	4.7 56.55	4.7 59.15	832
ohms Hrs. to 0.9V	4.7 56.95	4.7 59.25	4.7 59.10	4.7 57.70	4.7 58.65	4.7 60.20	833
ohms Hrs. to 0.9V	4.7 59.15	4.7 61.50	4.7 57.65				834
ohms Hrs. to 0.9V	3.3 5.60	3.3 7.50	3.3 1.25	3.3 4.85	3.3 5.60	3.3 5.25	835
ohms Hrs. to 0.9V	3.3 1.75	3.3 5.70	3.3 5.40	3.3 4.70	3.3 4.05	3.3 4.05	836
ohms Hrs. to 0.9V	3.3 4.65	3.3 5.65	3.3 7.00	3.3 7.45	3.3 5.30	3.3 4.80	837

APPENDIX III

Test No.	Cell Type	Temp. °F	Storage	SCL-6274 Reference	Notes
838	12R	70	6 Mo. @ +20°F	Chart 2	
839	42R	70	Initial	Chart 1	3 cells
840	42R	200	Initial	Chart 1	
841	64OR	0	Initial	Chart 1	
842	64OR	0	Initial	Chart 1	
843	64OR	0	Initial	Chart 1	3 cells
844	12R	70	Initial	Chart 1	
845	12R	70	Initial	Chart 1	
846	12R	70	Initial	Chart 1	3 cells
847	12R	-20	Initial	Chart 1	
848	12R	-20	Initial	Chart 1	
849	12R	-20	Initial	Chart 1	3 cells
850	64OR	200	Initial	Chart 1	
851	64OR	200	Initial	Chart 1	
852	64OR	200	Initial	Chart 1	3 cells, No. 2 cell test defective

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	3.3 5.65	3.3 5.40	3.3 5.80	3.3 6.90	3.3 5.35	3.3 5.65	838
ohms Hrs. to 0.9V	0.75 5.10	0.75 5.55	0.75 12.55				839
ohms Hrs. to 0.9V	0.75 10.35	0.75 9.70	0.75 10.55	0.75 10.40	0.75 9.80	0.75 10.45	840
ohms Hrs. to 0.9V	47 0.10	47 0.10	47 0.15	47 0.10	47 0.10	47 0.10	841
ohms Hrs. to 0.9V	47 0.05	47 0.10	47 0.10	47 0.10	47 0.10	47 0.15	842
ohms Hrs. to 0.9V	47 0.15	47 0.15	47 0.20				843
ohms Hrs. to 0.9V	12 37.65	12 36.65	12 39.40	12 37.45	12 35.85	12 37.80	844
ohms Hrs. to 0.9V	12 34.75	12 36.85	12 36.20	12 36.55	12 37.35	12 34.70	845
ohms Hrs. to 0.9V	12 35.90	12 35.85	12 35.80				846
ohms Hrs. to 0.9V	15 0.30	15 0.30	15 0.25	15 0.25	15 0.25	15 0.25	847
ohms Hrs. to 0.9V	15 0.30	15 0.30	15 0.35	15 0.35	15 0.25	15 0.35	848
ohms Hrs. to 0.9V	15 0.15	15 0.30	15 0.20				849
ohms Hrs. to 0.9V	22 10.95	22 11.05	22 10.50	22 8.45	22 9.20	22 10.35	850
ohms Hrs. to 0.9V	22 11.05	22 9.95	22 8.40	22 9.80	22 11.05	22 10.75	851
ohms Hrs. to 0.9V	22 10.95	22	22 9.85				852

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
853	12R	70	3 Mo. @ 160°F	Chart 2	
854	12R	70	3 Mo. @ 160°F	Chart 2	
855	12R	200	Initial	Chart 1	
856	12R	200	Initial	Chart 1	
857	12R	200	Initial	Chart 1	3 cells
858	12R	200	Initial	Chart 1	Cell 1,5 test defective
859	12R	200	Initial	Chart 1	
860	12R	200	Initial	Chart 1	3 cells
861	640R	200	Initial	Chart 1	
862	640R	200	Initial	Chart 1	
863	640R	200	Initial	Chart 1	3 cells
864	42R	-20	Initial	Chart 1	All less than 0.02 hr.
865	42R	-20	Initial	Chart 1	All less than 0.02 hr.
866	42R	-20	Initial	Chart 1	3 cells. All less than 0.02 hr.
867	640R	0	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	4.7 0.85	4.7 0.70	4.7 0.80	4.7 0.80	4.7 1.00	4.7 0.85	853
ohms Hrs. to 0.9V	4.7 0.75	4.7 0.80	4.7 0.95	4.7 0.85	4.7 0.85	4.7 0.80	854
ohms Hrs. to 0.9V	15 17.05	15 24.10	15 24.70	15 22.50	15 20.40	15 22.30	855
ohms Hrs. to 0.9V	15 17.45	15 21.05	15 23.60	15 22.85	15 25.60	15 20.45	856
ohms Hrs. to 0.9V	15 17.20	15 20.45	15 41.20				857
ohms Hrs. to 0.9V	12	12 17.55	12 16.00	12 18.30	12	12 13.15	858
ohms Hrs. to 0.9V	12 17.00	12 16.20	12 16.90	12 16.20	12 16.95	12 17.10	859
ohms Hrs. to 0.9V	12 17.05	12 14.60	12 14.25				860
ohms Hrs. to 0.9V	27 13.25	27 13.15	27 11.35	27 11.70	27 12.10	27 9.65	861
ohms Hrs. to 0.9V	27 11.90	27 12.45	27 13.35	27 12.70	27 2.70	27 10.50	862
ohms Hrs. to 0.9V	27 13.85	27 11.95	27 12.20				863
ohms Hrs. to 0.9V	0.75	0.75	0.75	0.75	0.75	0.75	864
ohms Hrs. to 0.9V	0.75	0.75	0.75	0.75	0.75	0.75	865
ohms Hrs. to 0.9V	0.75	0.75	0.75				866
ohms Hrs. to 0.9V	68 0.25	68 0.30	68 0.25	68 0.45	68 0.45	68 0.40	867

APPENDIX III

Test No.	Cell Type	Temp. °F	Storage	SCL-6274 Reference	Notes
868	64CR	0	Initial	Chart 1	
869	64CR	0	Initial	Chart 1	3 cells
870	12R	70	6 Mo. @ 70°F	Chart 2	
871	12R	70	6 Mo. @ 70°F	Chart 2	3 cells
872	42R	70	Initial	Chart 1	
873	42R	70	Initial	Chart 1	Test not made
874	42R	70	Initial	Chart 1	3 cells
875	42R	40	Initial	Chart 1	
876	42R	40	Initial	Chart 1	No. 5 cell test defective
877	42R	40	Initial	Chart 1	3 cells
878	42R	20	Initial	Chart 1	All less than 0.02 hr.
879	42R	20	Initial	Chart 1	All less than 0.02 hr.
880	42R	20	Initial	Chart 1	3 cells. All less than 0.02 hr.
881	42R	70	Initial	Chart 1	
882	42R	70	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	68 0.25	68 0.40	68 0.50	68 0.50	68 0.45	68 0.35	868
ohms Hrs. to 0.9V	68 0.25	68 0.25	68 0.25				869
ohms Hrs. to 0.9V	3.3 0.75	3.3 4.70	3.3 5.45	3.3 4.55	3.3 4.55	3.3 3.75	870
ohms Hrs. to 0.9V	3.3 3.40	3.3 4.85	3.3 5.90				871
ohms Hrs. to 0.9V	15 195.05	15 187.10	15 190.70	15 195.50	15 191.95	15 188.0	872
ohms Hrs. to 0.9V	15	15	15	15	15	15	873
ohms Hrs. to 0.9V	15 194.65	15 196.55	15 201.70				874
ohms Hrs. to 0.9V	15 195.20	15 191.15	15 191.35	15 197.65	15 191.05	15 186.90	875
ohms Hrs. to 0.9V	15 151.75	15 170.95	15 160.90	15 170.20	15	15 169.65	876
ohms Hrs. to 0.9V	15 180.30	15 190.30	15 183.05				877
ohms Hrs. to 0.9V	0.75	0.75	0.75	0.75	0.75	0.75	878
ohms Hrs. to 0.9V	0.75	0.75	0.75	0.75	0.75	0.75	879
ohms Hrs. to 0.9V	0.75	0.75	0.75				880
ohms Hrs. to 0.9V	3.3 38.75	3.3 41.35	3.3 42.30	3.3 41.45	3.3 41.50	3.3 40.55	881
ohms Hrs. to 0.9V	3.3 43.00	3.3 41.05	3.3 50.50	3.3 42.80	3.3 40.20	3.3 39.95	882

APPENDIX III

Test No.	Cell Type	Temp. °F	Storage	SCL-6274 Reference	Notes
883	42R	70	Initial	Chart 1	3 cells
884	42R	115	Initial	Chart 1	
885	42R	115	Initial	Chart 1	
886	42R	115	Initial	Chart 1	3 cells
887	64OR	40	Initial	Chart 1	3 cells
888	42R	0	Initial	Chart 1	
889	42R	0	Initial	Chart 1	
890	42R	0	Initial	Chart 1	3 cells
891	64OR	160	Initial	Chart 1	No. 3,4,&5 cell test defective
892	64OR	160	Initial	Chart 1	No. 2&6 cell test defective
893	64OR	160	Initial	Chart 1	3 cells. No. 2&3 cell test defective
894	64OR	0	Initial	Chart 1	
895	64OR	0	Initial	Chart 1	
896	64OR	0	Initial	Chart 1	3 cells
897	64OR	40	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	3.3 39.40	3.3 42.85	3.3 51.10				883
ohms Hrs. to 0.9V	3.3 40.05	3.3 42.70	3.3 46.15	3.3 40.45	3.3 48.55	3.3 40.70	884
ohms Hrs. to 0.9V	3.3 44.95	3.3 42.10	3.3 41.40	3.3 42.75	3.3 41.35	3.3 40.45	885
ohms Hrs. to 0.9V	3.3 40.30	3.3 42.80	3.3 41.50				886
ohms Hrs. to 0.9V	39 0.65	39 0.75	39 0.65				887
ohms Hrs. to 0.9V	3.3 0.15	3.3 0.15	3.3 0.20	3.3 0.15	3.3 0.20	3.3 0.25	888
ohms Hrs. to 0.9V	3.3 0.20	3.3 0.20	3.3 0.20	3.3 0.25	3.3 0.25	3.3 0.25	889
ohms Hrs. to 0.9V	3.3 0.20	3.3 0.25	3.3 0.30				890
ohms Hrs. to 0.9V	100 30.75	100 29.70	100	100	100	100 27.90	891
ohms Hrs. to 0.9V	100 34.35	100	100 31.00	100 24.95	100 31.15	100	892
ohms Hrs. to 0.9V	100 33.75	100	100				893
ohms Hrs. to 0.9V	100 0.35	100 0.35	100 0.60	100 0.60	100 0.50	100 0.70	894
ohms Hrs. to 0.9V	100 0.45	100 0.65	100 0.50	100 0.50	100 0.60	100 0.40	895
ohms Hrs. to 0.9V	100 0.60	100 0.60	100 0.55				896
ohms Hrs. to 0.9V	68 0.85	68 0.85	68 1.15	68 1.05	68 1.15	68 1.50	897

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
898	640R	40	Initial	Chart 1	
899	640R	40	Initial	Chart 1	3 cells
900	640R	40	Initial	Chart 1	
901	640R	40	Initial	Chart 1	
902	640R	40	Initial	Chart 1	3 cells. Cell 3, incorrect load resistor
903	42R	0	Initial	Chart 1	
904	42R	0	Initial	Chart 1	
905	42R	0	Initial	Chart 1	3 cells
906	42R	20	Initial	Chart 1	
907	42R	20	Initial	Chart 1	
908	42R	20	Initial	Chart 1	3 cells
909	42R	200	Initial	Chart 1	
910	42R	200	Initial	Chart 1	
911	42R	200	Initial	Chart 1	3 cells
912	42R	200	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	68 2.05	68 2.05	68 1.60	68 3.00	68 2.05	68 5.15	898
ohms Hrs. to 0.9V	68 1.80	68 1.55	68 1.65				899
ohms Hrs. to 0.9V	100 4.25	100 2.75	100 3.65	100 7.25	100 3.10	100 2.90	900
ohms Hrs. to 0.9V	100 2.05	100 3.60	100 4.15	100 4.80	100 3.35	100 4.40	901
ohms Hrs. to 0.9V	100 5.10	100 3.50	100 25.80				902
ohms Hrs. to 0.9V	2.2 0.05	2.2 0.10	2.2 0.10	2.2 0.10	2.2 0.10	2.2 0.25	903
ohms Hrs. to 0.9V	2.2 0.10	2.2 0.10	2.2 0.10	2.2 0.10	2.2 0.15	2.2 0.10	904
ohms Hrs. to 0.9V	2.2 0.15	2.2 0.15	2.2 0.10				905
ohms Hrs. to 0.9V	3.3 0.20	3.3 0.15	3.3 0.30	3.3 0.20	3.3 0.20	3.3 0.15	905
ohms Hrs. to 0.9V	3.3 0.25	3.3 0.20	3.3 0.30	3.3 0.20	3.3 0.35	3.3 0.25	907
ohms Hrs. to 0.9V	3.3 0.25	3.3 0.25	3.3 0.30				908
ohms Hrs. to 0.9V	3.3 38.55	3.3 39.20	3.3 28.45	3.3 36.25	3.3 35.80	3.3 33.80	909
ohms Hrs. to 0.9V	3.3 29.45	3.3 35.40	3.3 38.55	3.3 36.55	3.3 32.90	3.3 37.35	910
ohms Hrs. to 0.9V	3.3 33.90	3.3 38.70	3.3 41.70				911
ohms Hrs. to 0.9V	4.7 47.40	4.7 47.50	4.7 46.55	4.7 50.65	4.7 46.90	4.7 50.45	912

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
913	42R	200	Initial	Chart 1	
914	42R	200	Initial	Chart 1	3 cells
915	12R	-20	Initial	Chart 1	
916	12R	-20	Initial	Chart 1	
917	12R	-20	Initial	Chart 1	3 cells
918	640R	200	Initial	Chart 1	
919	640R	200	Initial	Chart 1	
920	640R	200	Initial	Chart 1	3 cells
921	640R	70	Initial	Chart 1	
922	640R	70	Initial	Chart 1	
923	640R	70	Initial	Chart 1	3 cells
924	42R	20	Initial	Chart 1	No.1,2,5 & 6 cell test defective
925	42R	20	Initial	Chart 1	
926	42R	20	Initial	Chart 1	No.3 cell test defective-3 cells
927	42R	40	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	4.7 51.20	4.7 49.20	4.7 49.40	4.7 43.20	4.7 52.75	4.7 45.60	913
ohms Hrs. to 0.9V	4.7 48.75	4.7 47.95	4.7 57.00				914
ohms Hrs. to 0.9V	12 0.15	12 0.20	12 0.20	12 0.25	12 0.20	12 0.20	915
ohms Hrs. to 0.9V	12 0.25	12 0.25	12 0.20	12 0.25	12 0.20	12 0.25	916
ohms Hrs. to 0.9V	12 0.25	12 0.20	12 0.20				917
ohms Hrs. to 0.9V	68 31.75	68 29.00	68 31.70	68 26.55	68 35.05	68 33.10	918
ohms Hrs. to 0.9V	68 29.30	68 31.95	68 32.75	68 33.05	68 26.20	68 33.70	919
ohms Hrs. to 0.9V	68 21.95	68 32.95	68 31.10				920
ohms Hrs. to 0.9V	100 48.85	100 52.35	100 49.50	100 50.30	100 49.05	100 50.05	921
ohms Hrs. to 0.9V	100 48.00	100 49.25	100 49.30	100 52.35	100 50.90	100 50.15	922
ohms Hrs. to 0.9V	100 50.45	100 49.30	100 49.45				923
ohms Hrs. to 0.9V	15	15	15 19.05	15 18.45	15	15	924
ohms Hrs. to 0.9V	15 18.45	15 79.85	15 65.60	15 22.00	15 68.75	15 72.05	925
ohms Hrs. to 0.9V	15 18.70	15 101.30	15				926
ohms Hrs. to 0.9V	3.3 2.05	3.3 1.65	3.3 1.95	3.3 1.85	3.3 1.35	3.3 2.30	927

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
928	42R	40	Initial	Chart 1	
929	42R	40	Initial	Chart 1	3 cells
930	12R	115	Initial	Chart 1	Cell tests 1,2, 5,6 defective
931	12R	115	Initial	Chart 1	
932	12R	115	Initial	Chart 1	Cell test 3 defective 3 cells
933	12R	20	Initial	Chart 1	
934	12R	20	Initial	Chart 1	
935	12R	20	Initial	Chart 1	3 cells
936	42R	-20	Initial	Chart 1	
937	42R	-20	Initial	Chart 1	
938	42R	-20	Initial	Chart 1	3 cells
939	12R	0	Initial	Chart 1	
940	12R	0	Initial	Chart 1	
941	12R	0	Initial	Chart 1	3 cells
942	42R	70	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	3.3 0.45	3.3 0.50	3.3 0.40	3.3 0.95	3.3 0.60	3.3 0.80	928
ohms Hrs. to 0.9V	3.3 2.05	3.3 3.10	3.3 2.80				929
ohms Hrs. to 0.9V	15	15	15 43.90	15 44.85	15	15	930
ohms Hrs. to 0.9V	15 44.80	15 44.50	15 44.75	15 46.20	15 45.85	15 41.75	931
ohms Hrs. to 0.9V	15 42.95	15 42.30	15				932
ohms Hrs. to 0.9V	3.3 0.05	3.3 0.05	3.3 0.15	3.3 0.10	3.3 0.05	3.3 0.05	933
ohms Hrs. to 0.9V	3.3 0.10	3.3 0.10	3.3 0.10	3.3 0.10	3.3 0.15	3.3 0.05	934
ohms Hrs. to 0.9V	3.3 0.10	3.3 0.10	3.3 0.10				935
ohms Hrs. to 0.9V	3.3 0.10	3.3 0.10	3.3 0.15	3.3 0.10	3.3 0.10	3.3 0.10	936
ohms Hrs. to 0.9V	3.3 0.15	3.3 0.15	3.3 0.15	3.3 0.15	3.3 0.15	3.3 0.15	937
ohms Hrs. to 0.9V	3.3 0.15	3.3 0.15	3.3 0.15				938
ohms Hrs. to 0.9V	33 1.40	33 1.40	33 4.65	33 3.10	33 4.45	33 6.30	939
ohms Hrs. to 0.9V	33 2.45	33 2.10	33 1.15	33 4.50	33 1.05	33 5.45	940
ohms Hrs. to 0.9V	33 1.30	33 1.10	33 1.45				941
ohms Hrs. to 0.9V	0.68 5.55	0.68 0.10	0.68 5.65	0.68 0.20	0.68 0.10	0.68 0.20	942

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
943	42R	70	Initial	Chart 1	3 cells
944	12R	200	3 Mo. @ 115°F	Chart 2	
945	12R	200	3 Mo. @ 115°F	Chart 2	
946	12R	200	3 Mo. @ 115°F	Chart 2	
947	12R	200	3 Mo. @ 115°F	Chart 2	
948	12R	200	3 Mo. @ 160°F	Chart 2	No.4 cell test defective
949	12R	200	3 Mo. @ 160°F	Chart 2	No.5 cell test defective
950	12R	200	3 Mo. @ 160°F	Chart 2	
951	12R	200	3 Mo. @ 160°F	Chart 2	
952	42R	200	Initial	Chart 1	
953	42R	200	Initial	Chart 1	No.4 cell test defective
954	42R	200	Initial	Chart 1	3 cells
955	640R	200	Initial	Chart 1	3 cells
956	12R	0	Initial	Chart 1	
957	12R	0	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	0.68 0.15	0.68 0.15	0.68 4.15				943
ohms Hrs. to 0.9V	3.3 1.75	3.3 1.55	3.3 1.55	3.3 2.05	3.3 1.55	3.3 1.55	944
ohms Hrs. to 0.9V	3.3 1.95	3.3 1.80	3.3 7.85	3.3 1.95	3.3 1.75	3.3 1.85	945
ohms Hrs. to 0.9V	3.3 1.55	3.3 1.85	3.3 2.30	3.3 1.75	3.3 1.85	3.3 1.80	946
ohms Hrs. to 0.9V	3.3 1.85	3.3 1.60	3.3 1.85	3.3 1.85	3.3 1.65	3.3 1.45	947
ohms Hrs. to 0.9V	4.7 1.75	4.7 1.40	4.7 1.65	4.7	4.7 1.60	4.7 2.55	948
ohms Hrs. to 0.9V	4.7 2.00	4.7 1.45	4.7 1.85	4.7 0.95	4.7	4.7 1.55	949
ohms Hrs. to 0.9V	4.7 2.00	4.7 1.30	4.7 1.95	4.7 2.55	4.7 1.25	4.7 1.90	950
ohms Hrs. to 0.9V	4.7 1.45	4.7 2.70	4.7 1.95	4.7 2.00	4.7 2.90	4.7 2.60	951
ohms Hrs. to 0.9V	0.68 7.25	0.68 8.90	0.68 7.25	0.68 8.95	0.68 6.45	0.68 10.30	952
ohms Hrs. to 0.9V	0.68 9.80	0.68 8.65	0.68 7.45	0.68	0.68 7.15	0.68 7.95	953
ohms Hrs. to 0.9V	0.68 6.35	0.68 8.70	0.68 8.20				954
ohms Hrs. to 0.9V	47 22.70	47 23.10	47 21.05				955
ohms Hrs. to 0.9V	12 0.25	12 0.30	12 0.20	12 0.50	12 0.50	12 0.65	956
ohms Hrs. to 0.9V	12 0.75	12 0.25	12 0.40	12 0.25	12 0.40	12 0.40	957

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
958	12R	0	Initial	Chart 1	3 cells
959	12R	115	3 Mo. @ 160°F	Chart 2	
960	12R	115	3 Mo. @ 160°F	Chart 2	No. 1 cell test defective
961	12R	115	3 Mo. @ 160°F	Chart 2	
962	12R	115	3 Mo. @ 160°F	Chart 2	No. 3 cell test defective
963	12R	200	3 Mo. @ 160°F	Chart 2	
964	12R	200	3 Mo. @ 160°F	Chart 2	No. 6 cell test defective
965	12R	200	3 Mo. @ 160°F	Chart 2	
966	12R	200	3 Mo. @ 160°F	Chart 2	
967	12R	70	3 Mo. @ 160°F	Chart 2	No. 1, 2, & 6 cell test defective
968	12R	70	3 Mo. @ 160°F	Chart 2	No. 3 & 4 cell test defective
969	12R	70	3 Mo. @ 160°F	Chart 2	No. 1 & 6 cell test defective
970	12R	70	3 Mo. @ 160°F	Chart 2	No. 6 cell test defective
971	12R	70	3 Mo. @ 160°F	Chart 2	
972	12R	70	3 Mo. @ 160°F	Chart 2	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	12 0.25	12 0.25	12 0.30				958
ohms Hrs. to 0.9V	3.3 0.60	3.3 0.75	3.3 0.75	3.3 0.65	3.3 0.75	3.3 0.90	959
ohms Hrs. to 0.9V	3.3 0.65	3.3 0.65	3.3 0.80	3.3 0.75	3.3 0.85	3.3 0.80	960
ohms Hrs. to 0.9V	3.3 0.70	3.3 0.65	3.3 0.65	3.3 0.75	3.3 0.60	3.3 0.85	961
ohms Hrs. to 0.9V	3.3 0.85	3.3 0.60	3.3 0.65	3.3 0.75	3.3 0.70	3.3 0.70	962
ohms Hrs. to 0.9V	3.3 0.80	3.3 0.85	3.3 0.75	3.3 0.75	3.3 0.75	3.3 1.25	963
ohms Hrs. to 0.9V	3.3 0.90	3.3 0.95	3.3 1.10	3.3 0.90	3.3 1.00	3.3	964
ohms Hrs. to 0.9V	3.3 1.00	3.3 0.85	3.3 0.80	3.3 0.65	3.3 1.00	3.3 0.70	965
ohms Hrs. to 0.9V	3.3 0.75	3.3 0.75	3.3 1.20	3.3 1.15	3.3 1.05	3.3 0.85	966
ohms Hrs. to 0.9V	3.3 0.75	3.3 0.75	3.3 0.40	3.3 0.40	3.3 0.45	3.3	967
ohms Hrs. to 0.9V	3.3 0.02	3.3 0.45	3.3 0.30	3.3 0.30	3.3 0.35	3.3 0.30	968
ohms Hrs. to 0.9V	3.3 0.35	3.3 0.35	3.3 0.40	3.3 0.35	3.3 0.35	3.3	969
ohms Hrs. to 0.9V	3.3 0.45	3.3 0.50	3.3 0.45	3.3 0.30	3.3 0.40	3.3	970
ohms Hrs. to 0.9V	3.3 0.35	3.3 0.35	3.3 0.35	3.3 0.45	3.3 0.50	3.3 0.35	971
ohms Hrs. to 0.9V	3.3 0.35	3.3 0.40	3.3 0.35	3.3 0.40	3.3 0.40	3.3 0.55	972

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
973	12R	200	3 Mo. @ 160°F.	Chart 2	
974	12R	200	3 Mo. @ 160°F.	Chart 2	
975	12R	200	3 Mo. @ 160°F.	Chart 2	
976	12R	200	3 Mo. @ 160°F.	Chart 2	No. 2 cell test defective
977	12R	200	3 Mo. @ 160°F.	Chart 2	
978	12R	200	3 Mo. @ 160°F.	Chart 2	
979	42R	-20	Initial	Chart 1	
980	42R	-20	Initial	Chart 1	
981	42R	-20	Initial	Chart 1	3 cells
982	42R	20	Initial	Chart 1	
983	42R	20	Initial	Chart 1	
984	42R	20	Initial	Chart 1	3 cells
985	12R	0	Initial	Chart 1	
986	12R	0	Initial	Chart 1	3 cells
987	12R	0	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	3.3 1.15	3.3 6.55	3.3 8.50	3.3 8.20	3.3 7.85	3.3 1.05	973
ohms Hrs. to 0.9V	3.3 1.05	3.3 1.50	3.3 8.00	3.3 7.70	3.3 1.15	3.3 1.10	974
ohms Hrs. to 0.9V	4.7 2.75	4.7 1.90	4.7 2.65	4.7 2.35	4.7 2.30	4.7 2.35	975
ohms Hrs. to 0.9V	4.7 2.10	4.7 2.45	4.7 2.45	4.7 2.55	4.7 2.00	4.7 2.25	976
ohms Hrs. to 0.9V	4.7 2.30	4.7 2.35	4.7 2.75	4.7 2.55	4.7 2.75	4.7 2.25	977
ohms Hrs. to 0.9V	4.7 2.45	4.7 1.90	4.7 2.85	4.7 2.10	4.7 2.65	4.7 2.50	978
ohms Hrs. to 0.9V	4.7 0.25	4.7 0.30	4.7 0.25	4.7 0.30	4.7 0.35	4.7 0.25	979
ohms Hrs. to 0.9V	4.7 0.30	4.7 0.30	4.7 0.35	4.7 0.30	4.7 0.30	4.7 0.30	980
ohms Hrs. to 0.9V	4.7 0.30	4.7 0.35	4.7 0.35				981
ohms Hrs. to 0.9V	4.7 0.50	4.7 0.85	4.7 0.60	4.7 0.60	4.7 0.90	4.7 0.55	982
ohms Hrs. to 0.9V	4.7 1.00	4.7 0.90	4.7 0.55	4.7 1.15	4.7 1.60	4.7 0.85	983
ohms Hrs. to 0.9V	4.7 0.50	4.7 0.55	4.7 0.60				984
ohms Hrs. to 0.9V	15 0.50	15 0.35	15 0.60	15 0.45	15 0.70	15 0.80	985
ohms Hrs. to 0.9V	15 0.30	15 0.35	15 0.40	15 0.65	15 0.50	15 0.60	986
ohms Hrs. to 0.9V	15 0.45	15 0.30	15 1.60				987

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
988	12R	70	3 Mo. @ 115°F	Chart 2	
989	12R	70	3 Mo. @ 115°F	Chart 2	
990	12R	70	3 Mo. @ 115°F	Chart 2	
991	12R	70	3 Mo. @ 115°F	Chart 2	
992	12R	40	3 Mo. @ 115°F	Chart 2	
993	12R	40	3 Mo. @ 115°F	Chart 2	
994	12R	40	3 Mo. @ 115°F	Chart 2	No. 4 cell test defective
995	12R	40	3 Mo. @ 115°F	Chart 2	
996	640R	200	Initial	Chart 1	
997	640R	200	Initial	Chart 1	
998	640R	200	Initial	Chart 1	3 cells
999	12R	70	3 Mo. @ 160°F	Chart 2	No. 5 cell test defective
1000	12R	70	3 Mo. @ 160°F.	Chart 2	
1001	12R	70	3 Mo. @ 160°F	Chart 2	
1002	12R	70	3 Mo. @ 160°F	Chart 2	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	3.3 0.30	3.3 4.20	3.3 0.45	3.3 5.50	3.3 0.40	3.3 0.30	988
ohms Hrs. to 0.9V	3.3 0.30	3.3 2.70	3.3 0.40	3.3 1.05	3.3 4.70	3.3 0.25	989
ohms Hrs. to 0.9V	3.3 0.85	3.3 0.80	3.3 1.30	3.3 0.70	3.3 0.50	3.3 0.45	990
ohms Hrs. to 0.9V	3.3 0.30	3.3 0.85	3.3 0.30	3.3 0.25	3.3 0.35	3.3 0.40	991
ohms Hrs. to 0.9V	3.3 0.10	3.3 0.05	3.3 0.10	3.3 0.15	3.3 0.02	3.3 0.05	992
ohms Hrs. to 0.9V	3.3 0.15	3.3 0.10	3.3 0.15	3.3 0.05	3.3 0.05	3.3 0.20	993
ohms Hrs. to 0.9V	3.3 0.15	3.3 0.05	3.3 0.05	3.3 3.3	3.3 0.20	3.3 0.15	994
ohms Hrs. to 0.9V	3.3 0.15	3.3 0.15	3.3 0.10	3.3 0.15	3.3 0.30	3.3 0.20	995
ohms Hrs. to 0.9V	39 15.45	39 16.40	39 4.25	39 4.50	39 18.60	39 4.20	996
ohms Hrs. to 0.9V	39 15.40	39 19.35	39 17.70	39 19.60	39 19.45	39 20.35	997
ohms Hrs. to 0.9V	39 19.10	39 20.35	39 12.10				998
ohms Hrs. to 0.9V	3.3 0.35	3.3 0.35	3.3 0.45	3.3 0.50	3.3 3.3	3.3 0.40	999
ohms Hrs. to 0.9V	3.3 0.40	3.3 0.20	3.3 0.45	3.3 0.40	3.3 0.60	3.3 0.40	1000
ohms Hrs. to 0.9V	3.3 0.65	3.3 0.30	3.3 0.40	3.3 0.35	3.3 0.40	3.3 0.40	1001
ohms Hrs. to 0.9V	3.3 0.45	3.3 0.40	3.3 0.35	3.3 0.40	3.3 0.40	3.3 0.35	1002

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
1003	12R	70	6 Mo. @ 70°F	Chart 2	
1004	12R	70	6 Mo. @ 70°F	Chart 2	3 cells
1005	12R	115	3 Mo. @ 115°F	Chart 2	
1006	12R	115	3 Mo. @ 115°F	Chart 2	
1007	12R	115	3 Mo. @ 115°F	Chart 2	
1008	12R	115	3 Mo. @ 115°F	Chart 2	
1009	12R	115	Initial	Chart 1	
1010	12R	115	Initial	Chart 1	
1011	12R	115	Initial	Chart 1	3 cells
1012	64OR	70	Initial	Chart 1	
1013	64OR	70	Initial	Chart 1	
1014	64OR	70	Initial	Chart 1	3 cells
1015	12R	250	6 Mo. @ 70°F	Chart 2	
1016	12R	250	6 Mo. @ 70°F	Chart 2	
1017	12R	250	6 Mo. @ 70°F	Chart 2	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	3.3 4.95	3.3 4.30	3.3 6.50	3.3 3.25	3.3 4.25	3.3 0.45	1003
ohms Hrs. to 0.9V	3.3 4.65	3.3 4.40	3.3 0.85				1004
ohms Hrs. to 0.9V	3.3 9.90	3.3 10.05	3.3 10.35	3.3 9.95	3.3 10.35	3.3 10.00	1005
ohms Hrs. to 0.9V	3.3 9.90	3.3 9.80	3.3 9.85	3.3 10.20	3.3 10.30	3.3 10.10	1006
ohms Hrs. to 0.9V	3.3 10.50	3.3 10.70	3.3 11.65	3.3 10.35	3.3 10.20	3.3 11.20	1007
ohms Hrs. to 0.9V	3.3 10.50	3.3 9.95	3.3 9.60	3.3 10.05	3.3 10.05	3.3 9.60	1008
ohms Hrs. to 0.9V	12 33.30	12 36.85	12 35.10	12 36.10	12 35.80	12 37.45	1009
ohms Hrs. to 0.9V	12 35.35	12 35.40	12 38.00	12 36.20	12 36.65	12 37.00	1010
ohms Hrs. to 0.9V	12 36.65	12 35.90	12 36.25				1011
ohms Hrs. to 0.9V	68 34.40	68 34.35	68 35.60	68 34.00	68 34.75	68 32.25	1012
ohms Hrs. to 0.9V	68 33.50	68 34.65	68 33.45	68 33.80	68 33.45	68 34.65	1013
ohms Hrs. to 0.9V	68 35.50	68 31.95	68 31.25				1014
ohms Hrs. to 0.9V	3.3 5.20	3.3 5.30	3.3 4.00	3.3 3.95	3.3 4.75	3.3 5.10	1015
ohms Hrs. to 0.9V	3.3 5.50	3.3 7.30	3.3 4.90	3.3 6.10	3.3 4.70	3.3 3.70	1016
ohms Hrs. to 0.9V	3.3 4.10	3.3 5.35	3.3 4.30	3.3 5.35	3.3 4.35	3.3 5.75	1017

APPENDIX I III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
1018	12R	250	6 Mo. @ 70°F	Chart 2	
1019	42R	-20	Initial	Chart 1	
1020	42R	-20	Initial	Chart 1	
1021	42R	-20	Initial	Chart 1	3 cells
1022	42R	0	Initial	Chart 1	
1023	42R	0	Initial	Chart 1	
1024	42R	0	Initial	Chart 1	3 cells
1025	42R	40	Initial	Chart 1	
1026	42R	40	Initial	Chart 1	
1027	42R	40	Initial	Chart 1	3 cells
1028	12R	70	6 Mo. @ 115°F	Chart 2	
1029	12R	70	6 Mo. @ 115°F	Chart 2	
1030	12R	250	6 Mo. @ -20°F	Chart 2	
1031	12R	250	6 Mo. @ -20°F	Chart 2	
1032	12R	250	6 Mo. @ -20°F	Chart 2	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	3.3 4.75	3.3 5.25	3.3 4.35	3.3 7.60	3.3 4.25	3.3 5.75	1018
ohms Hrs. to 0.9V	15 1.20	15 1.50	15 1.35	15 1.60	15 1.40	15 1.30	1019
ohms Hrs. to 0.9V	15 1.40	15 1.60	15 1.55	15 1.55	15 1.55	15 1.50	1020
ohms Hrs. to 0.9V	15 1.40	15 1.45	15 1.50				1021
ohms Hrs. to 0.9V	8.2 0.75	8.2 0.60	8.2 0.75	8.2 0.70	8.2 0.75	8.2 0.65	1022
ohms Hrs. to 0.9V	8.2 0.80	8.2 0.75	8.2 0.75	8.2 0.75	8.2 0.75	8.2 0.85	1023
ohms Hrs. to 0.9V	8.2 0.45	8.2 0.80	8.2 0.85				1024
ohms Hrs. to 0.9V	4.7 19.25	4.7 19.65	4.7 17.40	4.7 11.60	4.7 12.70	4.7 10.30	1025
ohms Hrs. to 0.9V	4.7 30.95	4.7 28.45	4.7 29.90	4.7 32.60	4.7 32.70	4.7 29.90	1026
ohms Hrs. to 0.9V	4.7 10.95	4.7 11.90	4.7 10.75				1027
ohms Hrs. to 0.9V	3.3 0.50	3.3 0.30	3.3 0.25	3.3 0.35	3.3 0.35	3.3 0.35	1028
ohms Hrs. to 0.9V	3.3 0.30	3.3 0.35	3.3 0.35	3.3 0.35	3.3 0.35	3.3 0.35	1029
ohms Hrs. to 0.9V	3.3 5.80	3.3 8.30	3.3 9.15	3.3 5.80	3.3 7.85	3.3 8.45	1030
ohms Hrs. to 0.9V	3.3 9.25	3.3 5.90	3.3 7.65	3.3 7.80	3.3 7.40	3.3 5.80	1031
ohms Hrs. to 0.9V	3.3 3.90	3.3 5.45	3.3 5.80	3.3 8.35	3.3 5.85	3.3 9.95	1032

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
1033	12R	250	6 Mo. @ -20°F	Chart 2	No 6 cell test defective
1034	42R	115	Initial	Chart 1	
1035	42R	115	Initial	Chart 1	No 2 cell test defective
1036	42R	115	Initial	Chart 1	3 cells
1037	12R	250	6 Mo. @ 115°F	Chart 2	No. 3 cell test defective
1038	12R	250	6 Mo. @ 115°F	Chart 2	
1039	12R	40	Initial	Chart 1	
1040	12R	40	Initial	Chart 1	
1041	12R	40	Initial	Chart 1	3 cells
1042	12R	70	2 Mo. @ 160°F	Chart 2	
1043	12R	70	2 Mo. @ 160°F	Chart 2	
1044	12R	250	6 Mo. @ 20°F	Chart 2	
1045	12R	250	6 Mo. @ 20°F	Chart 2	
1046	12R	250	6 Mo. @ 20°F	Chart 2	
1047	12R	250	6 Mo. @ 20°F	Chart 2	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	3.3 5.90	3.3 8.65	3.3 5.60	3.3 8.75	3.3 8.05	3.3	1033
ohms Hrs. to 0.9V	0.68 7.45	0.68 7.55	0.68 6.70	0.68 5.25	0.68 4.90	0.68 5.30	1034
ohms Hrs. to 0.9V	0.68 6.00	0.68 5.60	0.68 6.10	0.68 7.45	0.68 6.10	0.68 6.10	1035
ohms Hrs. to 0.9V	0.68 7.25	0.68 6.50	0.68 5.90				1036
ohms Hrs. to 0.9V	3.3 1.80	3.3 2.00	3.3	3.3 1.40	3.3 2.05	3.3 1.80	1037
ohms Hrs. to 0.9V	3.3 1.85	3.3 6.60	3.3 1.85	3.3 2.10	3.3 2.35	3.3 6.70	1038
ohms Hrs. to 0.9V	12 6.05	12 10.20	12 13.95	12 9.05	12 8.85	12 9.10	1039
ohms Hrs. to 0.9V	12 10.70	12 10.80	12 9.20	12 8.80	12 5.95	12 7.75	1040
ohms Hrs. to 0.9V	12 18.35	12 15.05	12 9.30				1041
ohms Hrs. to 0.9V	3.3 1.40	3.3 0.75	3.3 0.55	3.3 0.75	3.3 0.45	3.3 0.75	1042
ohms Hrs. to 0.9V	3.3 0.80	3.3 1.95	3.3 3.40	3.3 3.60	3.3 1.95	3.3 0.65	1043
ohms Hrs. to 0.9V	3.3 2.25	3.3 4.30	3.3 10.30	3.3 5.90	3.3 5.05	3.3 4.10	1044
ohms Hrs. to 0.9V	3.3 9.65	3.3 8.70	3.3 4.65	3.3 3.15	3.3 5.00	3.3 3.70	1045
ohms Hrs. to 0.9V	3.3 7.95	3.3 9.40	3.3 4.35	3.3 5.30	3.3 8.20	3.3 7.15	1046
ohms Hrs. to 0.9V	3.3 4.00	3.3 9.65	3.3 4.35	3.3 3.85	3.3 5.55	3.3 7.77	1047

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
1048	12R	250	2 Mo. @ 160°F	Chart 2	
1049	12R	250	2 Mo. @ 160°F	Chart 2	
1050	12R	250	2 Mo. @ 160°F	Chart 2	No. 5 cell test defective
1051	12R	250	2 Mo. @ 160°F	Chart 2	2 cells
1052	12R	115	3 Mo. @ 115°F	Chart 2	No. 1 cell test defective
1053	12R	115	3 Mo. @ 115°F	Chart 2	
1054	12R	115	3 Mo. @ 115°F	Chart 2	
1055	12R	115	3 Mo. @ 115°F	Chart 2	
1056	12R	250	3 Mo. @ 160°F	Chart 2	No. 5 cell test defective
1057	12R	250	3 Mo. @ 160°F	Chart 2	No. 3&6 cell test defective
1058	12R	250	3 Mo. @ 160°F	Chart 2	
1059	12R	250	3 Mo. @ 160°F	Chart 2	
1060	12R	250	3 Mo. @ 115°F	Chart 2	
1061	12R	250	3 Mo. @ 115°F	Chart 2	
1062	12R	250	3 Mo. @ 115°F	Chart 2	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	3.3 1.45	3.3 1.60	3.3 1.90	3.3 1.85	3.3 1.60	3.3 1.90	1048
ohms Hrs. to 0.9V	3.3 1.75	3.3 2.10	3.3 2.05	3.3 2.05	3.3 2.75	3.3 1.80	1049
ohms Hrs. to 0.9V	3.3 1.50	3.3 2.00	3.3 1.50	3.3 1.10	3.3 3.3	3.3 3.05	1050
ohms Hrs. to 0.9V	3.3 2.65	3.3 2.85	3.3 3.3	3.3 3.3	3.3 3.3	3.3 3.3	1051
ohms Hrs. to 0.9V	4.7 13.20	4.7 14.75	4.7 15.40	4.7 15.85	4.7 14.60	4.7 14.60	1052
ohms Hrs. to 0.9V	4.7 14.35	4.7 15.25	4.7 14.45	4.7 14.70	4.7 15.20	4.7 16.60	1053
ohms Hrs. to 0.9V	4.7 15.20	4.7 14.75	4.7 14.30	4.7 14.55	4.7 14.40	4.7 14.30	1054
ohms Hrs. to 0.9V	4.7 16.10	4.7 14.65	4.7 15.10	4.7 14.75	4.7 15.65	4.7 14.15	1055
ohms Hrs. to 0.9V	3.3 1.45	3.3 1.45	3.3 1.25	3.3 1.55	3.3 3.3	3.3 1.55	1056
ohms Hrs. to 0.9V	3.3 1.65	3.3 2.20	3.3 3.3	3.3 1.40	3.3 1.85	3.3 3.3	1057
ohms Hrs. to 0.9V	3.3 0.60	3.3 1.25	3.3 1.30	3.3 1.60	3.3 1.45	3.3 1.50	1058
ohms Hrs. to 0.9V	3.3 0.35	3.3 1.75	3.3 2.15	3.3 1.15	3.3 2.25	3.3 1.65	1059
ohms Hrs. to 0.9V	3.3 1.55	3.3 1.80	3.3 1.55	3.3 8.45	3.3 1.25	3.3 8.70	1060
ohms Hrs. to 0.9V	3.3 1.80	3.3 1.75	3.3 1.35	3.3 1.50	3.3 1.65	3.3 7.85	1061
ohms Hrs. to 0.9V	3.3 1.30	3.3 2.80	3.3 2.45	3.3 2.15	3.3 1.75	3.3 2.05	1062

APPENDIX III

Test No.	Cell Type	Temp. °F	Storage	SCL-6274 Reference	Notes
1063	12R	250	3 Mo. @ 115°F	Chart 2	
1064	640R	70	1 Mo. @ 160°F	Chart 3	
1065	640R	70	1 Mo. @ 160°F	Chart 3	
1066	640R	70	1 Mo. @ 160°F	Chart 3	
1067	640R	70	1 Mo. @ 160°F	Chart 3	
1068	640R	70	1 Mo. @ 160°F	Chart 3	
1069	640R	70	1 Mo. @ 160°F	Chart 3	
1070	640R	70	1 Mo. @ 160°F	Chart 3	
1071	640R	70	1 Mo. @ 160°F	Chart 3	
1072	12R	40	Initial	Chart 1	
1073	12R	40	Initial	Chart 1	
1074	12R	40	Initial	Chart 1	3 cells
1075	640R	250	1 Mo. @ 160°F	Chart 3	
1076	640 R	250	1 Mo. @ 160°F	Chart 3	
1077	640R	250	1 Mo. @ 160°F	Chart 3	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	3.3 2.55	3.3 8.15	3.3 2.30	3.3 8.65	3.3 1.85	3.3 2.00	1063
ohms Hrs. to 0.9V	27 8.20	27 7.25	27 1.80	27 1.50	27 3.65	27 7.20	1064
ohms Hrs. to 0.9V	27 7.20	27 1.90	27 6.90	27 7.75	27 7.25	27 8.20	1065
ohms Hrs. to 0.9V	27 8.20	27 8.75	27 7.25	27 1.50	27 1.05	27 8.20	1056
ohms Hrs. to 0.9V	27 8.80	27 9.05	27 7.30	27 8.25	27 8.70	27 7.25	1067
ohms Hrs. to 0.9V	180 77.55	180 79.05	180 74.15	180 74.40	180 79.75	180 76.80	1068
ohms Hrs. to 0.9V	180 74.35	180 75.90	180 83.90	180 82.70	180 79.40	180 80.80	1069
ohms Hrs. to 0.9V	180 72.05	180 80.25	180 79.80	180 78.55	180 79.80	180 82.80	1070
ohms Hrs. to 0.9V	180 82.75	180 86.60	180 74.55	180 75.15	180 79.20	180 80.85	1071
ohms Hrs. to 0.9V	15 4.20	15 3.35	15 3.30	15 4.15	15 4.90	15 4.15	1072
ohms Hrs. to 0.9V	15 6.50	15 3.05	15 8.75	15 6.65	15 14.50	15 16.15	1073
ohms Hrs. to 0.9V	15 17.95	15 3.45	15 9.35				1074
ohms Hrs. to 0.9V	27 4.00	27 4.10	27 3.75	27 3.50	27 4.20	27 4.10	1075
ohms Hrs. to 0.9V	27 4.55	27 3.40	27 3.20	27 4.75	27 12.45	27 4.30	1076
ohms Hrs. to 0.9V	27 4.45	27 4.30	27 11.30	27 3.45	27 3.15	27 3.95	1077

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
1078	640R	250	1 Mo. @ 160°F	Chart 3	
1079	42R	0	Initial	Chart 1	
1080	42R	0	Initial	Chart 1	
1081	42R	0	Initial	Chart 1	3 cells
1082	12R	115	Initial	Chart 1	
1083	12R	40	3 Mo. @ 160°F	Chart 2	
1084	12R	40	3 Mo. @ 160°F	Chart 2	
1085	12R	40	3 Mo. @ 160°F	Chart 2	
1086	12R	40	3 Mo. @ 160°F	Chart 2	
1087	640R	115	1 Mo. @ 160°F	Chart 3	
1088	640R	115	1 Mo. @ 160°F	Chart 3	
1089	640R	115	1 Mo. @ 160°F	Chart 3	
1090	640R	115	1 Mo. @ 160°F	Chart 3	
1091	42R	160	Initial	Chart 1	
1092	42R	160	Initial	Chart 1	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	27 3.40	27 4.45	27 4.20	27 4.90	27 3.90	27 3.80	1078
ohms Hrs. to 0.9V	15 1.50	15 1.85	15 1.80	15 2.00	15 2.05	15 2.15	1079
ohms Hrs. to 0.9V	15 1.50	15 1.70	15 1.90	15 2.35	15 2.50	15 2.55	1080
ohms Hrs. to 0.9V	15 1.75	15 1.60	15 1.90				1081
ohms Hrs. to 0.9V	15 45.65	15 46.10	15 44.60	15 44.35	15 44.00	15 41.00	1082
ohms Hrs. to 0.9V	3.3 0.20	3.3 0.25	3.3 0.25	3.3 0.25	3.3 0.30	3.3 0.25	1083
ohms Hrs. to 0.9V	3.3 0.20	3.3 0.25	3.3 0.25	3.3 0.25	3.3 0.30	3.3 0.30	1084
ohms Hrs. to 0.9V	3.3 0.30	3.3 0.35	3.3 0.35	3.3 0.30	3.3 0.35	3.3 0.25	1085
ohms Hrs. to 0.9V	3.3 0.20	3.3 0.35	3.3 0.30	3.3 0.35	3.3 0.45	3.3 0.30	1086
ohms Hrs. to 0.9V	27 13.15	27 12.50	27 12.55	27 11.85	27 13.10	27 13.85	1087
ohms Hrs. to 0.9V	27 11.25	27 12.05	27 11.85	27 12.65	27 11.85	27 12.00	1088
ohms Hrs. to 0.9V	27 13.10	27 13.75	27 12.05	27 13.00	27 12.55	27 12.70	1089
ohms Hrs. to 0.9V	27 13.35	27 12.65	27 11.50	27 12.40	27 12.35	27 12.00	1090
ohms Hrs. to 0.9V	.68 8.60	.68 8.10	.68 8.70	.68 8.40	.68 10.40	.68 9.60	1091
ohms Hrs. to 0.9V	.68 9.75	.68 10.35	.68 8.45	.68 9.15	.68 7.10	.68 8.15	1092

APPENDIX III

Test No.	Cell Type	Temp. °F	Storage	SCL-6274 Reference	Notes
1093	42R	160	Initial	Chart 1	3 cells
1094	42R	40	Initial	Chart 1	
1095	12R	20	Initial	Chart 1	
1096	12R	20	Initial	Chart 1	
1097	12R	20	Initial	Chart 1	3 cells
1098	640R	-20	Initial	Chart 1	
1099	640R	-20	Initial	Chart 1	
1100	640R	-20	Initial	Chart 1	3 cells
1101	12R	115	3 Mo. @ 115°F	Chart 2	
1102	12R	115	3 Mo. @ 115°F	Chart 2	
1103	12R	115	3 Mo. @ 115°F	Chart 2	
1104	12R	115	3 Mo. @ 115°F	Chart 2	
1105	12R	40	Initial	Chart 1	
1106	640R	70	2 Mo. @ 160°F	Chart 3	
1107	640R	70	2 Mo. @ 160°F	Chart 3	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	.68 10.65	.68 11.05	.68 8.60				1093
ohms Hrs. to 0.9V	3.3 1.85	3.3 1.40	3.3 1.40	3.3 1.25	3.3 0.40	3.3 0.45	1094
ohms Hrs. to 0.9V	15 2.05	15 1.95	15 2.00	15 0.60	15 1.10	15 1.95	1095
ohms Hrs. to 0.9V	15 1.15	15 1.80	15 2.05	15 1.95	15 1.15	15 0.95	1096
ohms Hrs. to 0.9V	15 1.90	15 1.15	15 3.50				1097
ohms Hrs. to 0.9V	100 0.50	100 0.50	100 0.30	100 0.45	100 0.45	100 0.35	1098
ohms Hrs. to 0.9V	100 0.40	100 0.40	100 0.40	100 0.45	100 0.45	100 0.40	1099
ohms Hrs. to 0.9V	100 0.40	100 0.45	100 0.70				1100
ohms Hrs. to 0.9V	4.7 15.90	4.7 15.10	4.7 13.75	4.7 14.80	4.7 14.95	4.7 14.45	1101
ohms Hrs. to 0.9V	4.7 14.95	4.7 14.25	4.7 15.00	4.7 14.95	4.7 14.75	4.7 14.85	1102
ohms Hrs. to 0.9V	4.7 15.70	4.7 14.25	4.7 14.90	4.7 14.80	4.7 15.75	4.7 14.25	1103
ohms Hrs. to 0.9V	4.7 14.40	4.7 15.10	4.7 13.60	4.7 14.25	4.7 14.75	4.7 16.70	1104
ohms Hrs. to 0.9V	5.6 0.25	5.6 0.50	5.6 0.90	5.6 0.45	5.6 0.50	5.6 0.70	1105
ohms Hrs. to 0.9V	27 4.95	27 4.95	27 1.25	27 3.60	27 5.35	27 2.25	1106
ohms Hrs. to 0.9V	27 2.20	27 1.25	27 3.10	27 1.55	27 3.55	27 3.55	1107

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
1108	12R	160	Initial	Chart 1	
1109	12R	160	Initial	Chart 1	
1110	12R	160	Initial	Chart 1	3 cells
1111	640R	160	Initial	Chart 1	
1112	640R	160	Initial	Chart 1	
1113	640R	160	Initial	Chart 1	3 cells
1114	12R	160	Initial	Chart 1	
1115	12R	160	Initial	Chart 1	No 2 & 6 cell test defective
1116	12R	160	Initial	Chart 1	3 cells
1117	12R	40	3 Mo. @ 160°F	Chart 2	
1118	12R	40	3 Mo. @ 160°F	Chart 2	
1119	12R	0	3 Mo. @ 160°F	Chart 2	
1120	12R	0	3 Mo. @ 160°F	Chart 2	
1121	640R	115	1 Mo. @ 160°F	Chart 3	
1122	640R	115	1 Mo. @ 160°F	Chart 3	

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	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	12 36.50	12 37.60	12 37.10	12 39.05	12 15.40	12 35.00	1108
ohms Hrs. to 0.9V	12 36.55	12 33.80	12 36.25	12 37.30	12 37.50	12 37.30	1109
ohms Hrs. to 0.9V	12 34.60	12 34.40	12 36.45				1110
ohms Hrs. to 0.9V	68 30.50	68 32.85	68 32.50	68 28.05	68 33.20	68 31.45	1111
ohms Hrs. to 0.9V	68 31.60	68 31.05	68 26.65	68 27.00	68 31.25	68 33.25	1112
ohms Hrs. to 0.9V	68 24.85	68 20.75	68 31.75				1113
ohms Hrs. to 0.9V	15 37.80	15 44.90	15 43.65	15 44.40	15 45.70	15 45.30	1114
ohms Hrs. to 0.9V	15 20.00	15 44.25	15 46.05	15 42.85	15 45.00	15 45	1115
ohms Hrs. to 0.9V	15 46.40	15 44.25	15 45.90				1116
ohms Hrs. to 0.9V	4.7 0.65	4.7 0.50	4.7 0.65	4.7 0.55	4.7 0.70	4.7 0.55	1117
ohms Hrs. to 0.9V	4.7 0.55	4.7 0.45	4.7 0.35	4.7 0.35	4.7 0.45	4.7 0.45	1118
ohms Hrs. to 0.9V	4.7 0.15	4.7 0.15	4.7 0.15	4.7 0.15	4.7 0.20	4.7 0.25	1119
ohms Hrs. to 0.9V	4.7 0.15	4.7 0.15	4.7 0.15	4.7 0.15	4.7 0.20	4.7 0.05	1120
ohms Hrs. to 0.9V	47 22.80	47 20.75	47 22.10	47 23.10	47 22.35	47 23.15	1121
ohms Hrs. to 0.9V	47 23.15	47 19.70	47 21.35	47 22.85	47 22.95	47 23.40	1122

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
1123	640R	115	1 Mo. @ 160°F	Chart 3	
1124	12R	40	3 Mo. @ 160°F	Chart 2	
1125	42R	0	Initial	Chart 1	
1126	42R	0	Initial	Chart 1	
1127	42R	0	Initial	Chart 1	3 cells
1128	12R	160	Initial	Chart 1	See 357, 358 & 509
1129	12R	160	Initial	Chart 1	See 357, 358 & 509 No 1 cell test defective
1130	12R	160	Initial	Chart 1	3 cells - See 357, 358 & 509
1131	12R	70	Initial	Chart 1	
1132	12R	70	Initial	Chart 1	
1133	12R	70	Initial	Chart 1	3 cells
1134	640R	160	Initial	Chart 1	
1135	42R	40	Initial	Chart 1	
1136	42R	40	Initial	Chart 1	
1137	42R	40	Initial	Chart 1	3 cells

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	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs. to 0.9V	47 20.15	47 20.75	47 21.30	47 21.60	47 21.55	47 19.60	1123
ohms Hrs. to 0.9V	4.7 0.25	4.7 0.35	4.7 0.50	4.7 0.10	4.7 0.25	4.7 0.20	1124
ohms Hrs. to 0.9V	4.7 0.25	4.7 0.30	4.7 0.35	4.7 0.30	4.7 0.35	4.7 0.50	1125
ohms Hrs. to 0.9V	4.7 0.40	4.7 0.45	4.7 0.40	4.7 0.40	4.7 0.45	4.7 0.45	1126
ohms Hrs. to 0.9V	4.7 0.25	4.7 0.25	4.7 0.25				1127
ohms Hrs. to 0.9V	8.2 6.95	8.2 7.90	8.2 23.70	8.2 7.75	8.2 7.40	8.2 24.50	1128
ohms Hrs. to 0.9V	8.2 6.15	8.2 24.80	8.2 6.15	8.2 7.25	8.2 19.85	8.2 19.85	1129
ohms Hrs. to 0.9V	8.2 6.90	8.2 6.35	8.2 6.90				1130
ohms Hrs. to 0.9V	15 48.65	15 44.20	15 47.50	15 44.75	15 46.20	15 47.80	1131
ohms Hrs. to 0.9V	15 46.00	15 46.75	15 46.35	15 46.65	15 47.50	15 46.60	1132
ohms Hrs. to 0.9V	15 46.10	15 44.85	15 47.80				1133
ohms Hrs. to 0.9V	100 36.00	100 48.75	100 36.40	100 38.20	100 12.35	100 15.30	1134
ohms Hrs. to 0.9V	0.75 0.05	0.75 0.05	0.75 0.05	0.75 0.05	0.75 0.05	0.75 0.05	1135
ohms Hrs. to 0.9V	0.75 0.05	0.75 0.05	0.75 0.05	0.75 0.05	0.75 0.05	0.75 0.05	1136
ohms Hrs. to 0.9V	0.75 0.10	0.75 0.10	0.75 0.10				1137

APPENDIX III

Test No.	Cell Type	Temp. °F	Storage	SCL-6274 Reference	Notes
1138	640R	-20	Initial	Chart 1	
1139	640R	-20	Initial	Chart 1	
1140	640R	-20	Initial	Chart 1	3 Cells
1141	640R	160	1 Mo. @ 160°F	Chart 3	
1142	640R	160	1 Mo. @ 160°F	Chart 3	
1143	640R	160	1 Mo. @ 160°F	Chart 3	
1144	640R	160	1 Mo. @ 160°F	Chart 3	
1145	12R	115	3 Mo. @ 160°F	Chart 2	
1146	12R	115	3 Mo. @ 160°F	Chart 2	
1147	640R	70	1 Mo. @ 160°F	Chart 3	
1148	640R	70	1 Mo. @ 160°F	Chart 3	
1149	640R	70	1 Mo. @ 160°F	Chart 3	
1150	640R	70	1 Mo. @ 160°F	Chart 3	
1151	640R	115	1 Mo. @ 160°F	Chart 3	
1152	640R	115	1 Mo. @ 160°F	Chart 3	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	68 0.20	68 0.20	68 0.25	68 0.30	68 0.20	68 0.25	1138
ohms Hrs to 0.9V	68 0.25	68 0.30	68 0.25	68 0.25	68 0.20	68 0.30	1139
ohms Hrs to 0.9V	68 0.30	68 0.25	68 0.25				1140
ohms Hrs to 0.9V	27 13.25	27 13.60	27 11.55	27 12.45	27 13.90	27 12.20	1141
ohms Hrs to 0.9V	27 11.55	27 12.10	27 10.80	27 11.80	27 12.15	27 12.60	1142
ohms Hrs to 0.9V	27 11.30	27 11.05	27 12.50	27 11.20	27 12.40	27 11.70	1143
ohms Hrs to 0.9V	27 12.50	27 12.20	27 13.15	27 2.55	27 12.45	27 13.15	1144
ohms Hrs to 0.9V	4.7 1.50	4.7 1.15	4.7 1.40	4.7 12.30	4.7 1.25	4.7 1.40	1145
ohms Hrs to 0.9V	4.7 1.10	4.7 1.35	4.7 1.40	4.7 12.75	4.7 1.20	4.7 1.45	1146
ohms Hrs to 0.9V	47 19.05	47 21.90	47 17.20	47 22.50	47 17.20	47 17.20	1147
ohms Hrs to 0.9V	47 21.90	47 22.55	47 17.30	47 23.05	47 22.45	47 23.45	1148
ohms Hrs to 0.9V	47 19.00	47 24.30	47 22.90	47 22.45	47 20.75	47 22.40	1149
ohms Hrs to 0.9V	47 23.95	47 19.15	47 20.90	47 22.90	47 19.00	47 24.25	1150
ohms Hrs to 0.9V	180 66.00	180 85.60	180 79.65	180 75.80	180 67.00	180 81.50	1151
ohms Hrs to 0.9V	180 83.30	180 79.80	180 78.25	180 82.60	180 87.00	180 74.50	1152

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
1153	640R	115	1 Mo. @ 160°F	Chart 3	
1154	640R	115	1 Mo. @ 160°F	Chart 3	
1155	640R	40	1 Mo. @ 160°F	Chart 3	No 1 cell test defective
1156	640R	40	1 Mo. @ 160°F	Chart 3	
1157	640R	40	1 Mo. @ 160°F	Chart 3	
1158	640R	40	1 Mo. @ 160°F	Chart 3	
1159	42R	160	Initial	Chart 1	
1160	42R	160	Initial	Chart 1	
1161	42R	160	Initial	Chart 1	3 Cells
1162	42R	160	Initial	Chart 1	
1163	42R	160	Initial	Chart 1	
1164	42R	160	Initial	Chart 1	3 Cells
1165	12R	-20	3 Mo. @ 160°F	Chart 2	
1166	12R	-20	3 Mo. @ 160°F	Chart 2	3 Cells
1167	12R	0	3 Mo. @ 160°F	Chart 2	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	180 75.90	180 83.75	180 66.40	180 76.80	180 77.05	180 82.30	1153
ohms Hrs to 0.9V	180 81.70	180 74.15	180 77.85	180 80.60	180 86.20	180 65.65	1154
ohms Hrs to 0.9V	180	180 24.80	180 16.30	180 4.30	180 12.75	180 17.45	1155
ohms Hrs to 0.9V	180 21.10	180 23.70	180 18.70	180 14.75	180 22.30	180 12.70	1156
ohms Hrs to 0.9V	180 14.60	180 27.70	180 31.15	180 21.00	180 13.25	180 12.65	1157
ohms Hrs to 0.9V	180 48.30	180 42.30	180 48.95	180 18.70	180 27.00	180 39.60	1158
ohms Hrs to 0.9V	3.3 41.10	3.3 41.85	3.3 40.20	3.3 43.75	3.3 40.60	3.3 41.55	1159
ohms Hrs to 0.9V	3.3 39.45	3.3 40.60	3.3 39.20	3.3 42.60	3.3 42.10	3.3 41.00	1160
ohms Hrs to 0.9V	3.3 41.25	3.3 40.35	3.3 40.85				1161
ohms Hrs to 0.9V	4.7 60.20	4.7 62.30	4.7 54.45	4.7 54.50	4.7 57.90	4.7 57.15	1162
ohms Hrs to 0.9V	4.7 50.85	4.7 57.30	4.7 55.70	4.7 55.35	4.7 55.65	4.7 60.35	1163
ohms Hrs to 0.9V	4.7 58.05	4.7 56.50	4.7 55.95				1164
ohms Hrs to 0.9V	33 2.15	33 2.45	33 2.65	33 2.95	33 3.00	33 2.90	1165
ohms Hrs to 0.9V	33 2.10	33 2.35	33 2.55				1166
ohms Hrs to 0.9V	33 2.50	33 2.65	33 2.20	33 12.60	33 2.20	33 3.30	1167

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
1168	12R	0	3 Mo. @ 160°F	Chart 2	3 Cells
1169	640R	200	1 Mo. @ 160°F	Chart 3	
1170	640R	200	1 Mo. @ 160°F	Chart 3	
1171	640R	40	1 Mo. @ 160°F	Chart 3	
1172	640R	40	1 Mo. @ 160°F	Chart 3	
1173	640R	40	1 Mo. @ 160°F	Chart 3	
1174	12R	40	3 Mo. @ 115°F	Chart 2	
1175	12R	40	3 Mo. @ 115°F	Chart 2	
1176	640R	160	1. Mo. @ 160°F	Chart 3	
1177	640R	160	1 Mo. @ 160°F	Chart 3	
1178	640R	160	1 Mo. @ 160°F	Chart 3	
1179	640R	160	1 Mo. @ 160°F	Chart 3	
1180	640R	0	1 Mo. @ 160°F	Chart 3	No 6 cell test defective
1181	640R	0	1 Mo. @ 160°F	Chart 3	
1182	640R	0	1 Mo. @ 160°F	Chart 3	No 6 cell test defective

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	33 4.25	33 5.70	33 7.00				1168
ohms Hrs to 0.9V	27 3.85	27 4.15	27 6.40	27 5.55	27 6.80	27 7.45	1169
ohms Hrs to 0.9V	27 12.00	27 13.05	27 2.90	27 11.50	27 12.55	27 2.45	1170
ohms Hrs to 0.9V	47 1.30	47 1.50	47 1.60	47 1.55	47 2.20	47 1.15	1171
ohms Hrs to 0.9V	47 2.00	47 1.60	47 1.95	47 2.05	47 1.65	47 1.75	1172
ohms Hrs to 0.9V	47 1.95	47 2.05	47 1.85	47 1.75	47 1.55	47 2.10	1173
ohms Hrs to 0.9V	47 0.25	47 0.20	47 0.30	47 0.15	47 0.25	47 0.30	1174
ohms Hrs to 0.9V	4.7 0.10	4.7 0.20	4.7 0.25	4.7 0.30	4.7 0.35	4.7 0.35	1175
ohms Hrs to 0.9V	47 5.00	47 22.60	47 6.25	47 24.35	47 2.85	47 21.50	1176
ohms Hrs to 0.9V	47 5.50	47 22.55	47 22.90	47 23.70	47 3.60	47 3.70	1177
ohms Hrs to 0.9V	47 21.20	47 4.05	47 20.35	47 19.65	47 21.25	47 4.60	1178
ohms Hrs to 0.9V	47 4.90	47 23.10	47 21.90	47 3.85	47 20.65	47 5.10	1179
ohms Hrs to 0.9V	180 2.30	180 2.60	180 2.10	180 2.75	180 2.85	180	1180
ohms Hrs to 0.9V	180 2.10	180 2.15	180 2.30	180 2.40	180 2.95	180 3.65	1181
ohms Hrs to 0.9V	180 1.60	180 2.25	180 2.15	180 2.30	180 2.90	180	1182

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
1183	12R	160	3 Mo. @ 160°F	Chart 2	
1184	12R	160	3 Mo. @ 160°F	Chart 2	3 Cells
1185	12R	160	3 Mo. @ 160°F	Chart 2	
1186	12R	160	3 Mo. @ 160°F	Chart 2	3 Cells
1187	12R	160	3 Mo. @ 115°F	Chart 2	
1188	12R	160	3 Mo. @ 115°F	Chart 2	
1189	12R	160	3 Mo. @ 115°F	Chart 2	
1190	640R	200	1 Mo. @ 160°F	Chart 3	
1191	640R	200	1 Mo. @ 160°F	Chart 3	
1192	640R	70	2 Mo. @ 160°F	Chart 3	
1193	640R	70	2 Mo. @ 160°F	Chart 3	
1194	640R	70	2 Mo. @ 160°F	Chart 3	
1195	640R	70	2 Mo. @ 160°F	Chart 3	
1196	640R	200	1 Mo. @ 160°F	Chart 3	No 6 cell test defective
1197	640R	200	1 Mo. @ 160°F	Chart 3	No 3 & 5 cell test defective

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	3.3 1.00	3.3 1.00	3.3 0.65	3.3 0.85	3.3 1.00	3.3 0.90	1183
ohms Hrs to 0.9V	3.3 1.25	3.3 1.25	3.3 0.90				1184
ohms Hrs to 0.9V	4.7 1.25	4.7 1.30	4.7 1.30	4.7 1.55	4.7 2.00	4.7 11.85	1185
ohms Hrs to 0.9V	4.7 1.60	4.7 2.20	4.7 1.65				1186
ohms Hrs to 0.9V	3.3 9.90	3.3 9.25	3.3 9.35	3.3 9.60	3.3 9.60	3.3 9.35	1187
ohms Hrs to 0.9V	3.3 9.90	3.3 9.00	3.3 8.70	3.3 9.05	3.3 9.70	3.3 9.35	1188
ohms Hrs to 0.9V	3.3 9.80	3.3 9.60	3.3 9.20	3.3 9.80	3.3 9.65	3.3 9.45	1189
ohms Hrs to 0.9V	27 2.60	27 1.80	27 12.20	27 11.90	27 11.75	27 12.40	1190
ohms Hrs to 0.9V	27 1.70	27 12.05	27 12.30	27 12.95	27 11.35	27 2.45	1191
ohms Hrs to 0.9V	180 84.75	180 76.25	180 82.05	180 83.75	180 80.50	180 81.70	1192
ohms Hrs to 0.9V	180 83.60	180 81.00	180 81.75	180 80.05	180 79.90	180 81.45	1193
ohms Hrs to 0.9V	47 21.10	47 22.55	47 17.45	47 19.20	47 22.65	47 22.55	1194
ohms Hrs to 0.9V	47 17.45	47 22.55	47 19.25	47 19.20	47 22.55	47 17.45	1195
ohms Hrs to 0.9V	47 3.90	47 5.05	47 4.45	47 7.35	47 7.55	47	1196
ohms Hrs to 0.9V	47 3.75	47 4.75	47	47 4.60	47	47 4.35	1197

APPENDIX III

Test No.	Cell Type	Temp. °F	Storage	SCL-6274 Reference	Notes
1198	12R	0	3 Mo. @ 115°F	Chart 2	All cells less than 0.05 hr.
1199	12R	0	3 Mo. @ 115°F	Chart 2	All cells less than 0.05 hr.
1200	12R	0	3 Mo. @ 115°F	Chart 2	All cells less than 0.05 hr.
1201	12R	-20	3 Mo. @ 115°F	Chart 2	
1202	12R	-20	3 Mo. @ 115°F	Chart 2	
1203	12R	-20	3 Mo. @ 115°F	Chart 2	
1204	640R	40	1 Mo. @ 160°F	Chart 3	
1205	640R	40	1 Mo. @ 160°F	Chart 3	
1206	640R	200	1 Mo. @ 160°F	Chart 3	
1207	640R	200	1 Mo. @ 160°F	Chart 3	
1208	640R	-20	1 Mo. @ 160°F	Chart 3	
1209	640R	-20	1 Mo. @ 160°F	Chart 3	4 Cells
1210	640R	0	1 Mo. @ 160°F	Chart 3	
1211	640R	0	1 Mo. @ 160°F	Chart 3	
1212	640R	40	2 Mo. @ 160°F	Chart 3	

DISCHARGE TESTS, NOS. 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	4.7	4.7	4.7	4.7	4.7	4.7	1198
ohms Hrs to 0.9V	4.7	4.7	4.7	4.7	4.7	4.7	1199
ohms Hrs to 0.9V	4.7	4.7	4.7	4.7	4.7	4.7	1200
ohms Hrs to 0.9V	33 0.80	33 0.75	33 0.85	33 0.70	33 0.85	33 0.60	1201
ohms Hrs to 0.9V	33 0.70	33 0.90	33 0.70	33 0.95	33 1.00	33 0.65	1202
ohms Hrs to 0.9V	33 0.95	33 0.60	33 0.85	33 1.05	33 0.85	33 0.95	1203
ohms Hrs to 0.9V	27 0.50	27 0.45	27 0.30	27 0.40	27 0.40	27 0.45	1204
ohms Hrs to 0.9V	27 0.40	27 0.50	27 0.75	27 0.40	27 0.55	27 0.55	1205
ohms Hrs to 0.9V	47 7.10	47 4.90	47 5.20	47 4.70	47 4.70	47 21.40	1206
ohms Hrs to 0.9V	47 20.65	47 3.60	47 3.85	47 3.65	47 6.40	47 4.65	1207
ohms Hrs to 0.9V	180 0.85	180 1.70	180 1.40	180 1.35	180 1.30	180 1.40	1208
ohms Hrs to 0.9V	180 1.50	180 1.60	180 1.40	180 1.90			1209
ohms Hrs to 0.9V	47 0.30	47 0.25	47 0.35	47 0.25	47 0.20	47 0.30	1210
ohms Hrs to 0.9V	47 0.25	47 0.25	47 0.30	47 0.35	47 0.30	47 0.45	1211
ohms Hrs to 0.9V	27 0.65	27 0.50	27 0.40	27 0.35	27 0.30	27 0.95	1212

APPENDIX III

Test No.	Cell Type	Temp. °F.	Storage	SCL-6274 Reference	Notes
1213	640R	70	2 Mo. @ 160°F	Chart 3	
1214	640R	115	2 Mo. @ 160°F	Chart 3	
1215	640R	40	2 Mo. @ 160°F	Chart 3	
1216	640R	115	2 Mo. @ 160°F	Chart 3	
1217	640R	-20	2 Mo. @ 160°F	Chart 3	
1218	640R	40	2 Mo. @ 160°F	Chart 3	
1219	640R	115	2 Mo. @ 160°F	Chart 3	
1220	12R	0	3 Mo. @ 115°F	Chart 2	
1221	12R	0	3 Mo. @ 115°F	Chart 2	
1222	12R	0	3 Mo. @ 115°F	Chart 2	
1223	640R	160	2 Mo. @ 160°F	Chart 3	
1224	640R	0	2 Mo. @ 160°F	Chart 3	
1225	640R	160	2 Mo. @ 160°F	Chart 3	
1226	640R	200	2 Mo. @ 160°F	Chart 3	
1227	640R	0	2 Mo. @ 160°F	Chart 3	

DISCHARGE TESTS, MOS, 373 - 1227

	Cell No. 1	Cell No. 2	Cell No. 3	Cell No. 4	Cell No. 5	Cell No. 6	Test No.
ohms Hrs to 0.9V	27 5.60	27 1.75	27 4.30	27 1.15	27 5.05	27 4.95	1213
ohms Hrs to 0.9V	27 12.80	27 12.15	27 12.20	27 12.35	27 11.45	27 11.60	1214
ohms Hrs to 0.9V	47 2.40	47 1.70	47 1.50	47 1.75	47 1.45	47 1.65	1215
ohms Hrs to 0.9V	47 21.50	47 20.35	47 21.45	47 20.25	47 19.55	47 21.40	1216
ohms Hrs to 0.9V	180 1.55	180 0.30	180 1.35	180 1.60	180 1.65	180 0.20	1217
ohms Hrs to 0.9V	180 24.95	180 25.00	180 11.80	180 12.45	180 29.40	180 19.05	1218
ohms Hrs to 0.9V	180 77.80	180 58.10	180 74.75	180 72.05	180 79.80	180 77.45	1219
ohms Hrs to 0.9V	33 0.65	33 1.95	33 2.60	33 2.20	33 1.75	33 4.75	1220
ohms Hrs to 0.9V	33 0.90	33 1.40	33 1.35	33 2.70	33 4.75	33 4.30	1221
ohms Hrs to 0.9V	33 0.85	33 1.15	33 1.45	33 1.95	33 1.25	33 2.80	1222
ohms Hrs to 0.9V	27 11.85	27 11.55	27 12.70	27 12.25	27 10.50	27 10.85	1223
ohms Hrs to 0.9V	47 0.25	47 0.10	47 0.30	47 0.35	47 0.35	47 0.40	1224
ohms Hrs to 0.9V	47 21.20	47 19.15	47 4.05	47 4.50	47 22.45	47 21.50	1225
ohms Hrs to 0.9V	47 6.20	47 7.95	47 8.30	47 4.20	47 6.85	47 5.15	1226
ohms Hrs to 0.9V	180 1.80	180 1.85	180 1.75	180 1.95	180 2.80	180 5.10	1227

<p>AD No. <u>ACCESSION No.</u> Mallory Battery Co., North Tarrytown, N.Y.</p> <p>Testing and Evaluation of Primary Alkaline Cells and Batteries, by R. M. Goodman. Unclassified. Report No. 3, 3rd Semi-Annual Report. 1 Sept. 1961. 161 pp.</p> <p>6111. Contract No. DA-36-039 SC-78320, DA Project No. 3-18-00-700, SC Task No. 3A99-09-002-02.</p> <p>The testing and evaluation of primary alkaline cells of the zinc-alkaline-mercuric oxide system over a wide range of temperature, discharge rate and storage.</p>	<p>AD No. <u>ACCESSION No.</u> Mallory Battery Co., North Tarrytown, N.Y.</p> <p>Testing and Evaluation of Primary Alkaline Cells and Batteries, by R. M. Goodman. Unclassified. Report No. 3, 3rd Semi-Annual Report. 1 Sept. 1961. 161 pp.</p> <p>6111. Contract No. DA-36-039 SC-78320, DA Project No. 3-18-00-700, SC Task No. 3A99-09-002-02.</p> <p>The testing and evaluation of primary alkaline cells of the zinc-alkaline-mercuric oxide system over a wide range of temperature, discharge rate and storage.</p>
<p>1.) Batteries:</p> <p>Primary Alkaline</p> <p>2.) Contract:</p> <p>DA-36-039 SC-78320</p>	<p>1.) Batteries:</p> <p>Primary Alkaline</p> <p>2.) Contract:</p> <p>DA-36-039 SC-78320</p>